



Palliser Airshed Society

Ambient Air Monitoring Network Summary

July 2006

Prepared By:



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August 3, 2006

Environmental Service Response Centre
Alberta Environment
#111 Twin Atria Building
4999-98 Ave
Edmonton Alberta T6B 2X3

Attention: Director of Monitoring and Evaluation

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – July 2006

Enclosed is the PAS Ambient Monitoring Report for the month of **July 2006**.

Please note that this report has been prepared in partial fulfillment of the City of Medicine Hat's air monitoring requirement as well as all members of the Palliser Airshed Society.

Continuous Monitoring – Crescent Heights

Included in this report are; monthly sampling table, detailed hourly average reports and multipoint calibration reports of all instruments. The measured ambient air quality was within the Provincial and Federal guidelines with no exceedences recorded. Operational time of all instruments was greater than 95% uptime for the month of July. There were no significant events leading to emergency response for the month of June.

The following is a summary of the monthly averages recorded during sampling:

- Monthly average concentrations of NO₂ was 7.0 ppb
- Monthly average concentrations for O₃ was 34.9 ppb
- Monthly average concentrations for CO was 0.15 ppm
- Monthly average concentrations for THC was 1.95 ppm
- Monthly average concentrations for PM_{2.5} was 5.4 µg/m³

Passive Monitoring – Six Sites throughout the PAS zone:

The following are the ranges for July 2006 recorded by the six passive stations located throughout the PAS zone.

- Monthly average concentrations for SO₂ passives were all <0.4 ppb.
- Monthly average concentrations for NO₂ passives ranged from 3.7 ppb to 5.1 ppb
- Monthly average concentrations for O₃ passives ranged from 30.9 ppb to 38.5 ppb

If you have any questions, please contact the Focus office at 1-888-466-6555 or 1-888-869-2252.

Sharon Whiteley, B.Sc.
AQM Data Specialist

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Continuous Monitoring

Ambient Air Monitoring Network

Crescent Heights Station

General Station Issues

Calibrations were performed on July 25th and 26th on all the pollutant analyzers. The coils in the air conditioner unit began to freeze up on July 27th to the 31st of July; this caused an increase in the station temperature which affected the daily zero and spans of the analyzers. A technician was on call to help ensure the air conditioner unit continued to operate well.

Parameter	Make	Model	Units	Notes
Ozone	Teledyne - API	400E	ppb	No operational issues observed.
Nitrogen Dioxide	Teledyne - API	200E	ppb	No operational issues observed.
Total Hydrocarbons	Bendix	400A	ppm	No operational issues observed.
Carbon Monoxide	TEI	49C	ppm	No operational issues observed.
PM 2.5	R&P TEOM	1400ab	µg/m ³	There were twenty-eight (28) hours of excessive baseline drift flagged. No other operational issues were observed.
Wind Speed	Met One	010C	kph	There were two (2) hours of calm noted. No other operational issues were observed.
Wind Direction	Met One	020C	Deg	No operational issues observed.
Ambient Temperature	Met One	083D	DegC	No operational issues observed.
Relative Humidity	Met One	083D	%	No operational issues observed.
Solar Radiation	Met One	096-1	W/m ²	No operational issues observed.
Data Acquisition System	Titan Logix	AP1000		No operational issues observed.



July 2006 Monthly Overall Summary Report Ambient Air Quality Data

Jul-2006		Palliser Airshed Society				Maximum Recorded Values							Operational Time (%)
Pollutant (units)	Objectives		Station	Monthly Average	Exceedence		Conc	1-hr			24-hr / 8-hr		
	1-hr	24-hr			1-hr	24-hr		Day	WSPD (km/hr)	WDIR (Sector)	Conc	Day	
NO (ppb)			Crescent Heights	1.6	-	-	17.8	Jul-22 08:00	1.5	ESE	3.3	Jul-22	100.0%
NO ₂ (ppb)	212	106	Crescent Heights	7.0	0	0	33.9	Jul-29 20:00	5.5	SE	10.7	Jul-29	100.0%
NO _x (ppb)			Crescent Heights	8.4	-	-	39.1	Jul-22 08:00	1.5	ESE	12.9	Jul-29	100.0%
O ₃ (ppb)	82		Crescent Heights	34.9	0	-	64.4	Jul-28 13:00	8.2	SW	46.2	Jul-05	100.0%
O ₃ (ppb) - 8-hr	65		Crescent Heights		0						59.1	Jul-27	
CO (ppm)	13		Crescent Heights	0.15	0	-	0.5	Jul-21 22:00	2.8	S	0.2	Jul-24	100.0%
CO (ppm) - 8-hr	5		Crescent Heights		0						0.3	Jul-22	
THC (ppm)			Crescent Heights	1.95	-	-	2.8	Jul-22 03:00	5.0	S	2.1	Jul-23	100.0%
PM _{2.5} (µg/m ³)		30 ^a	Crescent Heights	5.4		0	27.5	Jul-07 10:00	17.4	W	9.5	Jul-30	96.2%
RH (%)			Crescent Heights	47.8	-	-	-	-	-	-	-	-	100.0%
SR (W/m ²)			Crescent Heights	302.3	-	-	-	-	-	-	-	-	100.0%
Temp (°C)			Crescent Heights	23.7	-	-	-	-	-	-	-	-	100.0%
WSPD v (km/hr)			Crescent Heights	2.7	-	-	28.0	Jul-30 19:00	28.0	W	14.1	Jul-13	100.0%
WSPD s (km/hr)			Crescent Heights	8.8	-	-	28.1	Jul-30 19:00	28.1	W	14.9	Jul-30	100.0%
WDIR (Deg)			Crescent Heights	WSW	-	-	-	-	-	-	-	-	100.0%

Note: ^a the draft 24-hr Alberta Ambient Air Quality Objectives
* Wind Direction is the predominate direction for the Month



PAS - Crescent Heights

Monthly Summary Tables, Graphs, and Roses



PAS - Crescent Heights - AQI Monthly Summary

Station: Crescent Heights
Station Owner: PAS

Air Quality Index (AQI)

Monitoring Dates: July 1, 2006 to August 1, 2006

Alberta's Air Quality Index

Good	1 to 25
Fair	26 to 50
Poor	51 to 100
Very Poor	> 100

Summary

Number of 1-hr Good Readings:	584
Number of 1-hr Fair Readings:	96
Number of 1-hr Poor Readings:	0
Number of 1-hr Very Poor Readings:	0

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Jul-06	14	11	10	8	8	7	7	11	16	20	N	26	28	30	26	25	24	25	24	20	19	18	12	10
2-Jul-06	11	11	11	8	7	10	10	11	12	N	13	18	N	23	29	30	29	25	24	21	16	15	13	10
3-Jul-06	8	8	10	6	5	4	6	8	N	17	21	23	26	26	25	26	24	24	23	21	17	19	14	10
4-Jul-06	9	12	15	9	5	7	7	N	11	16	21	23	24	25	25	25	25	23	21	17	18	19	22	
5-Jul-06	22	23	23	23	23	21	N	23	24	25	26	28	29	28	25	27	26	24	22	N	21	21	N	18
6-Jul-06	17	15	12	10	10	N	7	9	10	11	15	18	19	21	N	24	N	23	24	24	N	19	14	15
7-Jul-06	14	15	13	14	N	14	13	17	20	24	28	30	28	28	27	25	24	N	22	20	14	12	10	11
8-Jul-06	12	11	13	N	12	10	13	12	12	16	21	21	21	23	23	23	23	23	22	21	19	17	12	15
9-Jul-06	13	12	N	N	9	8	11	13	15	17	N	15	16	16	17	17	17	17	17	15	9	11	14	12
10-Jul-06	13	N	14	12	10	6	9	12	15	15	18	N	20	19	20	19	17	18	N	N	17	14	18	13
11-Jul-06	N	12	10	9	10	7	8	12	14	16	19	N	23	N	26	25	25	27	26	25	18	16	12	N
12-Jul-06	13	11	N	16	12	10	9	10	17	21	23	19	N	31	25	24	21	20	23	24	18	20	N	12
13-Jul-06	11	N	11	10	13	13	13	N	20	N	20	20	19	19	19	19	22	21	16	15	12	N	18	14
14-Jul-06	19	14	15	12	13	11	10	13	16	20	22	N	18	17	18	16	19	19	16	19	N	17	13	10
15-Jul-06	11	11	10	9	11	10	11	14	16	N	22	23	25	27	28	25	25	31	27	N	19	16	14	14
16-Jul-06	15	19	18	14	12	10	14	20	22	23	23	21	21	22	23	24	26	N	23	19	16	13	14	
17-Jul-06	10	9	8	7	5	7	9	14	17	19	21	26	30	29	29	28	29	N	25	22	17	20	10	8
18-Jul-06	N	15	15	12	15	14	14	15	18	20	24	24	24	25	26	28	N	26	26	24	22	17	17	16
19-Jul-06	14	12	11	11	11	7	6	9	12	11	N	N	24	23	26	N	21	22	24	24	21	20	15	17
20-Jul-06	17	17	16	14	19	13	13	14	16	17	19	22	24	25	N	27	28	28	28	25	21	17	10	12
21-Jul-06	12	10	9	11	11	9	9	15	17	18	23	26	27	N	31	30	27	25	23	19	12	13	15	6
22-Jul-06	10	4	6	5	6	5	7	10	9	N	29	27	N	30	34	31	29	27	25	22	21	21	19	14
23-Jul-06	12	10	9	16	12	7	9	8	10	12	14	N	25	30	35	34	30	29	25	18	21	24	23	20
24-Jul-06	16	13	11	11	10	12	12	12	16	21	N	23	N	28	32	34	36	35	33	26	18	14	13	11
25-Jul-06	12	10	6	4	5	6	8	11	13	N	22	N	22	23	N	22	23	24	22	17	16	20	19	17
26-Jul-06	14	14	N	8	6	5	12	13	N	N	N	6	9	29	31	30	27	24	22	21	11	12	16	9
27-Jul-06	12	15	N	14	17	17	18	20	23	25	26	30	31	32	33	34	35	34	31	25	22	21	20	20
28-Jul-06	19	N	18	19	18	15	16	17	19	22	24	27	32	37	31	33	32	34	28	21	18	15	14	13
29-Jul-06	N	11	10	8	7	6	7	9	12	15	17	18	18	28	N	27	26	22	18	14	14	9	13	N
30-Jul-06	16	17	14	17	14	16	12	11	13	14	19	22	24	25	27	28	29	24	22	21	20	21	N	18
31-Jul-06	18	16	15	13	11	10	12	14	15	17	18	19	20	19	19	20	20	20	18	19	N	9	9	9



PAS - Crescent Heights - Nitrogen Dioxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

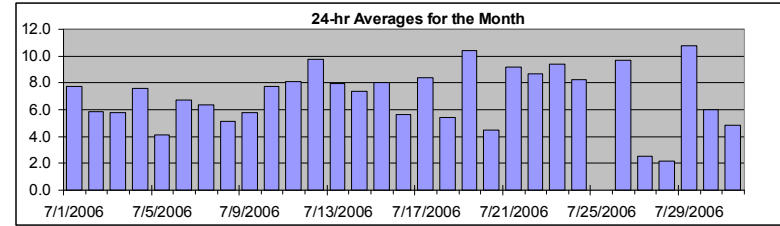
HOURLY AVERAGE TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 1-hr 212 ppb 24-hr 106 ppb
Summary

Number of 1-hr Exceedances:	0
Number of 24-hr Exceedances:	0
Maximum 1-hr Average:	33.9 ppb 29-Jul 20:00 21:00
Maximum 24-hr Average:	10.7 ppb 29-Jul



AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	21.5	16.5	9.5	5.8	3.8	1.6	0.0	7.0 ppb	5.8 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-06	8	8	7	11	10	12	13	13	6	4	A	5	5	4	5	4	5	2	3	7	6	6	16	17		7.7	16.9	
2-Jul-06	10	9	8	7	7	5	4	4	5	A	12	11	11	6	3	2	4	2	2	4	3	3	5	9		5.9	11.6	
3-Jul-06	8	11	5	10	9	9	10	10	A	8	6	4	3	2	2	2	2	2	5	8	3	5	8		5.8	10.5		
4-Jul-06	16	6	5	6	11	17	18	A	21	11	4	4	4	3	4	4	4	3	4	6	8	6	5	3		7.6	21.1	
5-Jul-06	2	1	2	3	3	6	A	10	6	5	4	4	3	3	3	2	2	2	3	6	5	3	11	6		4.1	10.8	
6-Jul-06	4	4	11	11	10	A	20	15	9	7	6	4	4	6	4	4	3	4	5	6	4	4	6	4		6.7	20.0	
7-Jul-06	4	4	6	5	A	10	8	7	10	4	4	4	3	3	4	6	6	11	5	5	12	10	9	5		6.4	12.3	
8-Jul-06	4	6	5	A	12	9	5	9	11	10	4	2	2	2	2	2	1	1	1	3	5	7	10	4		5.2	11.8	
9-Jul-06	4	4	A	14	9	11	5	4	3	2	4	4	2	1	1	2	2	4	4	8	19	14	4	7		5.8	18.8	
10-Jul-06	7	A	7	6	7	16	13	7	6	8	6	3	4	5	5	9	13	10	10	5	8	8	5	11		7.7	15.5	
11-Jul-06	A	13	14	9	8	13	11	6	5	3	3	3	4	6	5	6	8	6	7	8	19	11	10	A		8.1	18.5	
12-Jul-06	12	13	10	6	10	15	19	18	9	5	6	14	5	5	6	7	11	12	7	5	11	6	A	12		9.8	18.9	
13-Jul-06	9	6	7	7	5	6	7	5	3	5	4	3	6	5	3	6	4	8	18	16	21	A	10	16		7.9	21.4	
14-Jul-06	5	13	5	13	8	10	8	5	4	4	2	6	5	5	2	8	5	5	14	4	A	12	15	11		7.4	15.4	
15-Jul-06	7	8	9	11	4	5	5	4	4	8	7	8	6	4	3	8	8	3	7	A	19	20	14	12		8.0	19.7	
16-Jul-06	7	7	9	7	10	11	6	2	2	2	2	1	3	4	3	3	2	2	A	7	9	12	13	7		5.7	12.6	
17-Jul-06	11	9	11	10	11	10	9	5	3	2	2	4	4	4	4	4	3	A	12	11	16	20	14	16		8.4	19.6	
18-Jul-06	8	12	7	7	8	7	4	5	6	6	2	2	2	2	2	3	A	6	4	4	4	8	6	6		5.4	11.6	
19-Jul-06	8	11	9	11	12	19	21	15	10	14	7	3	5	9	5	A	19	16	9	8	11	6	8	5		10.4	20.6	
20-Jul-06	3	3	4	5	4	5	6	4	3	3	2	2	2	2	A	6	4	3	3	3	3	7	14	11		4.5	14.0	
21-Jul-06	8	10	8	5	6	12	13	7	8	13	7	5	5	A	7	6	4	3	4	8	19	9	23	18		9.2	23.5	
22-Jul-06	18	17	9	8	8	12	13	13	21	23	5	3	A	8	4	3	3	3	3	6	4	4	4	8		8.7	22.5	
23-Jul-06	7	9	10	13	18	15	17	14	12	11	10	A	8	10	6	3	5	4	5	19	9	4	4	4		9.4	19.1	
24-Jul-06	8	10	9	9	10	16	15	16	9	9	A	8	11	4	5	4	3	4	4	4	9	7	8	8		8.2	16.4	
25-Jul-06	13	19	12	9	8	10	10	13	10	A	5	C	C	C	C	C	A	3	3	10	9	4	6	7		N	18.8	
26-Jul-06	9	9	A	10	14	14	8	3	7	9	3	2	5	7	6	5	5	4	8	9	24	17	27	17		9.7	27.3	
27-Jul-06	10	3	A	10	6	7	5	5	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0		2.5	10.2	
28-Jul-06	0	A	6	2	0	2	1	0	0	0	0	0	0	2	9	8	5	1	4	2	2	2	2	2		2.2	9.5	
29-Jul-06	A	5	5	6	6	8	6	5	6	5	6	10	21	12	5	6	7	12	16	24	34	22	10	A		10.7	33.9	
30-Jul-06	13	6	6	6	5	11	7	7	4	6	4	4	2	4	5	6	6	8	7	2	4	4	A	12		6.0	13.1	
31-Jul-06	7	4	4	4	5	6	6	7	4	8	5	3	2	3	3	2	2	3	3	6	4	A	14	9		4.9	14.4	
Hourly Avg	8.0	8.3	7.5	8.0	8.1	10.3	9.8	7.9	7.1	6.6	4.6	4.4	4.7	4.5	4.0	4.6	5.2	5.0	5.9	7.0	10.4	8.3	9.6	8.8				
Hourly Max	17.9	18.8	14.3	13.8	18.2	18.8	20.6	18.4	21.5	22.5	11.6	14.4	21.3	11.8	9.5	8.8	18.7	15.9	18.2	24.2	33.9	22.3	27.3	18.2				

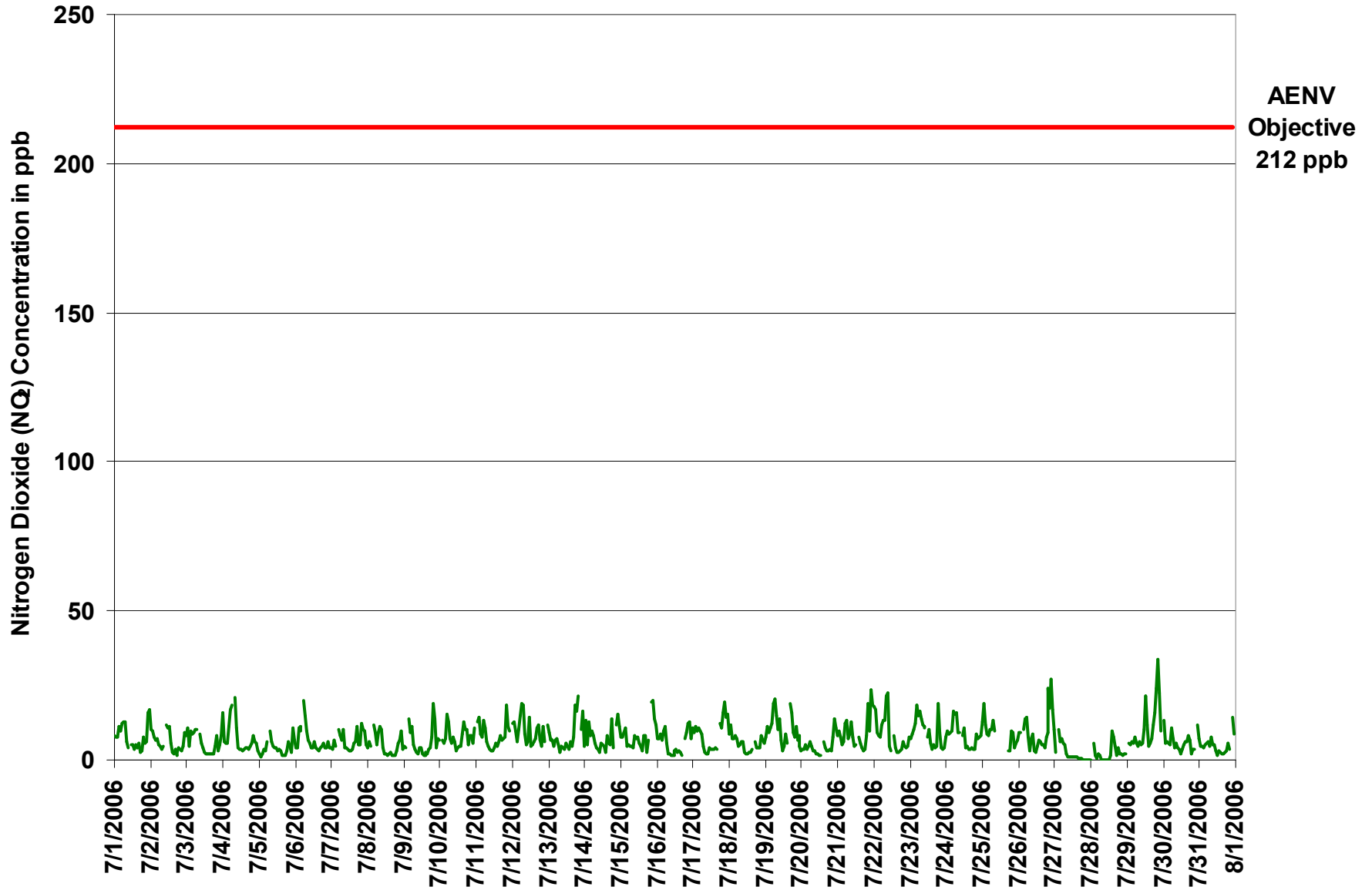


Figure 1. PAS - Crescent Heights Nitrogen Dioxide 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

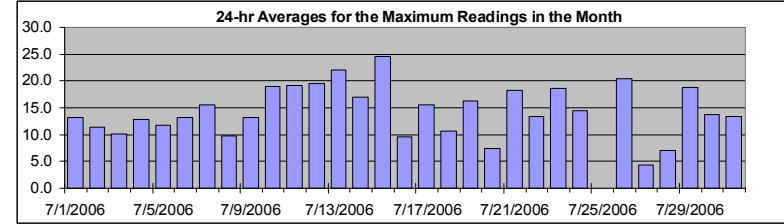
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitrogen Dioxide (NO₂)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	68.2	ppb	15-Jul	23:00 0:00
Maximum 24-hr Value:	24.6	ppb	15-Jul	



AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	48.3	36.5	19.6	11.4	6.7	2.9	1.3	14.5 ppb	11.4 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-06	14	23	12	19	13	23	16	17	7	6	A	6	13	6	10	9	11	3	5	10	12	13	27	27	13.2	26.9
2-Jul-06	13	13	16	13	19	7	28	5	9	A	18	13	27	13	5	4	7	3	3	6	4	4	10	22	11.4	27.8
3-Jul-06	22	31	9	21	10	11	15	14	A	12	7	7	4	3	4	4	3	4	4	9	13	6	10	10	10.1	30.9
4-Jul-06	42	8	7	8	16	21	22	A	31	25	28	6	6	4	5	7	7	6	6	7	11	11	9	8	12.9	41.9
5-Jul-06	21	3	23	40	6	20	A	14	8	7	5	22	6	8	6	3	3	3	8	9	8	6	33	11	11.8	40.0
6-Jul-06	9	20	36	27	13	A	30	20	17	9	8	7	10	10	10	14	5	9	9	10	10	6	9	7	13.1	36.0
7-Jul-06	8	14	11	7	A	30	35	10	15	8	6	5	5	5	6	12	32	21	26	13	24	13	30	17	15.5	34.5
8-Jul-06	6	31	30	A	17	11	7	14	13	12	7	4	4	4	4	4	3	3	2	6	7	12	15	6	9.7	30.5
9-Jul-06	8	8	A	17	13	18	7	4	4	3	25	23	4	3	3	28	20	22	6	13	27	27	5	11	13.2	28.4
10-Jul-06	35	A	9	10	12	19	17	14	8	12	11	13	31	8	22	12	23	33	32	19	45	28	7	15	19.0	45.5
11-Jul-06	A	22	38	10	9	23	14	10	7	4	5	5	10	11	15	57	60	12	19	18	39	16	14	A	19.1	59.6
12-Jul-06	14	17	29	8	16	26	28	27	13	7	9	41	9	13	15	10	34	28	14	11	33	9	A	39	19.6	41.4
13-Jul-06	11	10	10	50	19	18	11	20	3	8	9	7	24	9	18	36	13	40	46	33	42	A	26	45	22.0	49.8
14-Jul-06	8	29	7	34	12	32	12	7	6	6	3	22	11	13	8	19	11	16	34	17	A	20	31	34	17.0	34.0
15-Jul-06	29	9	44	39	7	23	6	6	5	26	14	41	11	22	11	28	17	18	24	A	35	43	42	68	24.6	68.2
16-Jul-06	12	17	17	8	12	14	13	3	3	2	2	2	5	9	6	6	5	3	A	11	25	15	17	11	9.6	25.3
17-Jul-06	13	11	14	11	14	43	13	9	5	3	3	20	22	16	6	13	6	A	19	15	34	27	16	25	15.6	43.2
18-Jul-06	12	37	20	14	18	10	7	11	12	10	6	4	4	4	4	16	A	10	5	6	6	13	10	9	10.7	37.3
19-Jul-06	11	16	13	17	15	34	23	22	14	18	11	4	9	36	8	A	25	22	12	11	14	13	11	11	16.2	36.0
20-Jul-06	4	5	5	7	6	6	9	8	10	7	3	4	3	2	A	8	6	4	4	6	5	16	25	18	7.4	24.7
21-Jul-06	9	26	9	7	8	35	19	12	32	17	12	9	12	A	9	17	7	16	6	37	44	22	31	26	18.3	43.9
22-Jul-06	21	22	12	10	24	22	24	24	26	29	7	6	A	14	5	4	3	6	5	9	8	7	7	15	13.4	28.7
23-Jul-06	13	14	15	27	21	22	19	25	20	13	25	A	17	31	30	6	43	7	6	31	19	11	5	9	18.6	43.1
24-Jul-06	10	22	12	11	12	26	21	19	22	15	A	28	44	7	10	5	5	6	4	7	12	10	10	14	14.5	43.5
25-Jul-06	23	27	14	11	14	18	12	25	14	A	8	C	C	C	C	A	5	6	20	19	8	17	11	N	26.5	N
26-Jul-06	11	25	A	12	19	20	15	4	11	12	6	5	26	12	31	8	21	19	48	38	37	32	33	26	20.5	48.4
27-Jul-06	15	5	A	14	9	9	8	9	3	3	2	2	2	2	2	3	2	2	2	1	1	1	0	0	4.3	15.2
28-Jul-06	0	A	14	3	2	4	3	3	1	2	1	1	4	16	17	13	8	7	44	4	3	4	4	3	7.0	43.7
29-Jul-06	A	8	7	9	9	10	7	7	9	16	12	14	39	27	9	21	19	18	27	52	42	38	12	A	18.8	52.1
30-Jul-06	51	8	12	9	14	21	13	12	6	10	6	24	5	7	9	13	13	31	14	7	5	5	A	19	13.7	51.4
31-Jul-06	54	7	9	7	7	28	11	25	22	11	18	6	3	23	5	4	4	6	7	9	7	A	25	11	13.4	53.7
Hourly Avg	17.3	16.7	16.2	16.0	12.8	20.1	15.5	13.3	11.8	10.8	9.6	12.2	12.7	11.8	10.1	13.2	14.4	12.7	14.9	14.9	19.8	15.0	17.0	18.2		
Hourly Max	53.7	37.3	43.6	49.8	23.8	43.2	34.5	26.8	31.9	28.7	27.6	41.4	43.5	36.0	30.8	57.0	59.6	39.8	48.4	52.1	45.5	42.7	41.5	68.2		

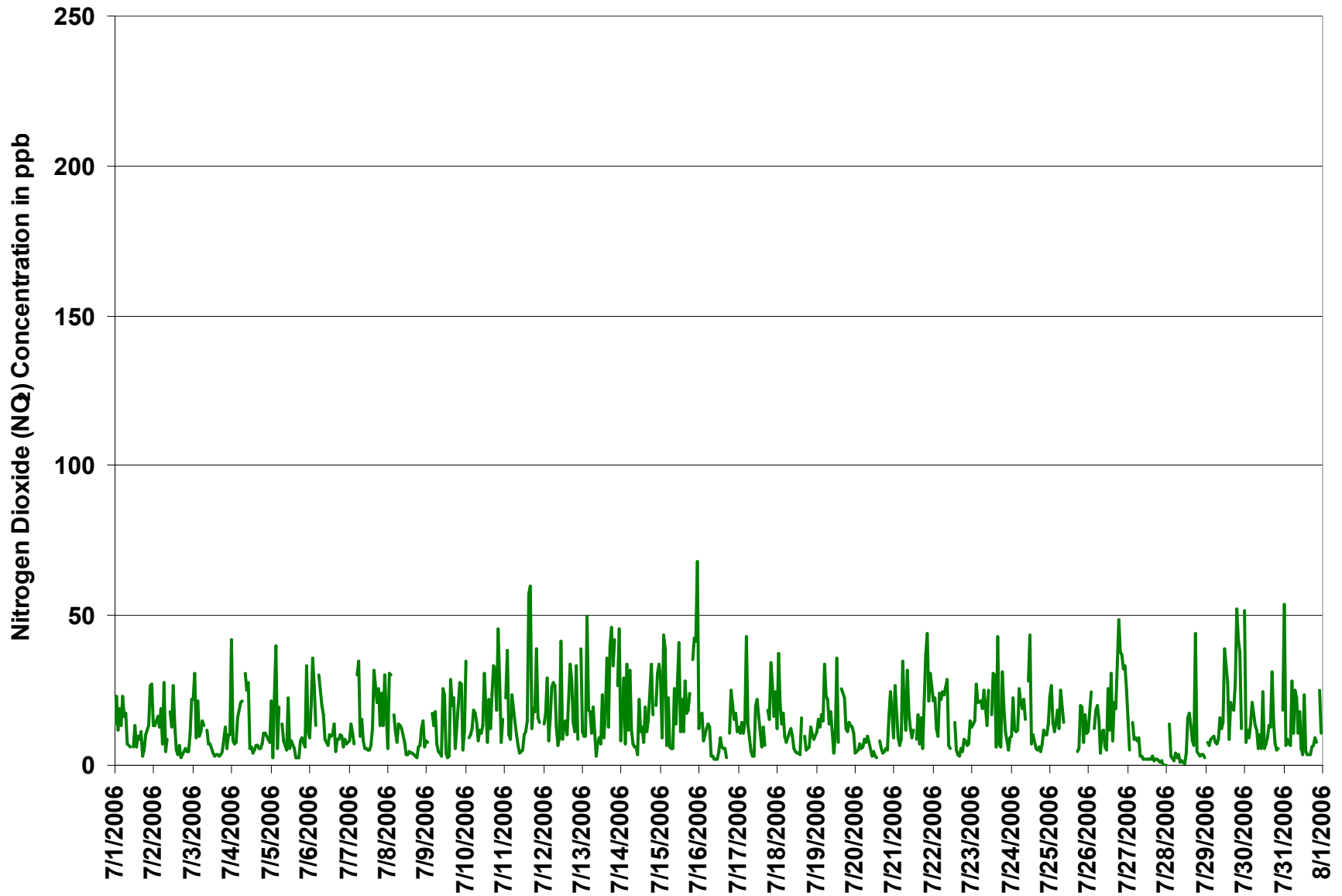
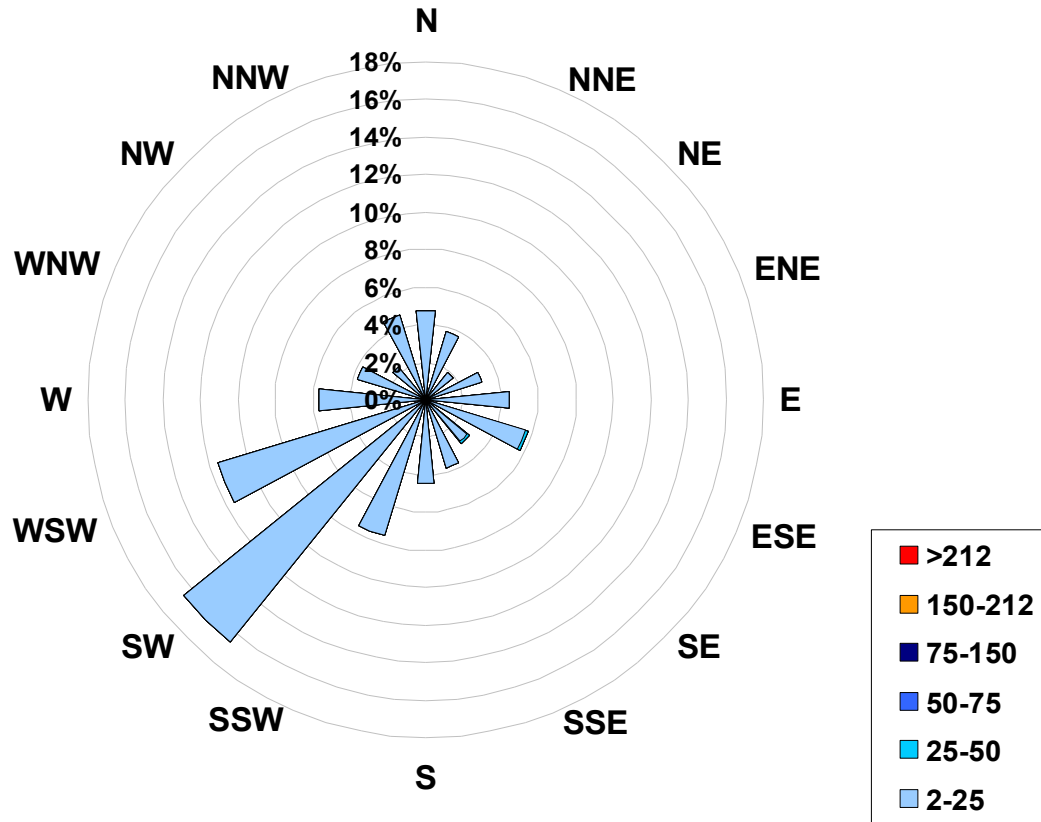


Figure 2. PAS - Crescent Heights Nitrogen Dioxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Nitrogen Dioxide (in ppb) Located at the Crescent Heights Site for July 2006



Calms: 0%

Frequency Distribution of NO ₂ in ppb			Frequency (hrs)
Range			
2.0	< 25		705
25	to 50		0
50	to 75		0
75	to 150		0
150	to 212		0
	> 212		0
Total Non-Zero Values			705



PAS - Crescent Heights - Nitric Oxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

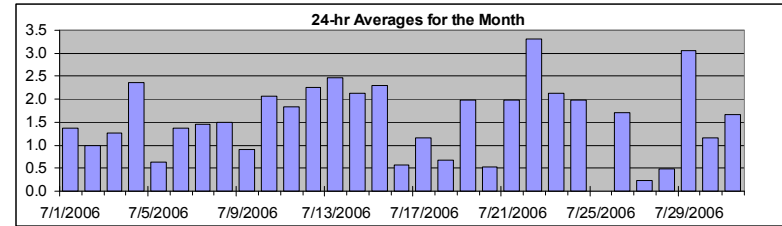
Nitric Oxide (NO)

Monitoring Dates: July 1, 2006 to August 1, 2006

Guideline Limit: 1-hr na ppb 24-hr na ppb
 Summary

Maximum 1-hr Average:	17.8	ppb	22-Jul	8:00 9:00
Maximum 24-hr Average:	3.3	ppb	22-Jul	

AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	11.7	5.4	1.9	0.8	0.4	0.1	0.0	1.6 ppb	0.8 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-06	0	1	0	1	1	3	6	8	2	2	A	1	1	0	1	1	1	0	0	1	0	0	1	1	1	1.4	7.7
2-Jul-06	0	0	0	1	1	1	2	1	2	A	3	3	3	2	0	0	1	0	0	0	0	0	0	0	1	1.0	3.2
3-Jul-06	1	4	0	1	1	3	8	7	A	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	8.1
4-Jul-06	8	0	0	0	1	8	13	A	12	4	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	2.4	12.5
5-Jul-06	0	0	1	2	0	1	A	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0.6	2.1
6-Jul-06	0	1	2	2	0	A	5	3	3	2	2	1	1	2	1	1	1	1	1	1	1	0	0	0	0	1.4	5.3
7-Jul-06	0	1	0	0	A	2	4	2	3	1	1	1	1	1	1	1	2	3	2	1	1	1	4	1	1.5	4.1	
8-Jul-06	1	5	4	A	1	1	1	4	6	5	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1.5	6.2	
9-Jul-06	0	0	A	0	0	2	1	1	0	0	3	3	1	0	0	1	1	1	1	1	2	1	0	0	0.9	3.0	
10-Jul-06	1	A	0	0	0	5	7	4	2	3	3	1	2	1	2	1	2	3	2	1	4	2	0	0	2.1	7.2	
11-Jul-06	A	1	3	0	1	7	5	3	2	1	1	1	1	2	1	2	3	1	1	1	2	0	0	A	1.8	7.3	
12-Jul-06	0	0	1	0	0	2	10	13	3	1	1	3	1	1	2	2	2	1	1	0	1	0	A	2	2.3	13.1	
13-Jul-06	1	1	1	4	1	2	3	2	1	2	2	1	3	2	2	5	2	3	8	3	2	A	1	6	2.5	7.8	
14-Jul-06	0	1	0	2	1	5	4	2	2	1	1	3	3	3	1	5	2	2	5	0	A	1	2	4	2.1	5.2	
15-Jul-06	1	0	7	9	0	2	2	2	1	4	2	4	2	1	1	3	2	0	1	A	1	2	2	4	2.3	9.2	
16-Jul-06	0	0	0	0	0	2	1	1	1	0	0	0	1	1	1	1	1	0	A	0	1	0	0	0	0.6	1.9	
17-Jul-06	0	0	0	0	0	7	3	2	1	0	1	1	1	1	1	1	1	A	1	1	2	1	0	1	1.2	6.8	
18-Jul-06	0	2	0	0	0	1	1	2	2	1	0	1	0	1	0	0	1	A	1	0	0	0	0	0	0	0.7	2.3
19-Jul-06	0	0	0	0	0	4	5	4	5	9	3	1	1	3	1	A	3	2	1	1	1	0	0	0	2.0	8.5	
20-Jul-06	0	0	0	0	0	0	1	1	1	1	1	1	0	0	A	0	0	0	0	0	0	0	0	0	0	0.5	1.5
21-Jul-06	0	2	0	0	0	4	5	3	4	5	2	1	1	A	1	1	1	1	1	1	1	6	0	3	1	2.0	5.9
22-Jul-06	1	2	0	0	3	9	12	11	18	17	1	0	A	1	0	0	0	0	0	0	0	0	0	0	0	3.3	17.8
23-Jul-06	0	0	0	4	3	5	7	6	3	3	5	A	2	2	2	1	2	1	1	1	1	0	0	0	0	2.1	7.2
24-Jul-06	0	1	0	0	0	5	10	11	4	3	A	1	2	1	1	1	1	1	1	1	1	1	0	0	2.0	11.0	
25-Jul-06	0	3	1	0	1	6	6	12	4	A	1	C	C	C	C	C	A	0	0	1	0	0	0	0	N	12.2	
26-Jul-06	0	1	A	1	1	4	4	2	4	4	1	1	1	1	2	1	2	1	5	1	2	0	1	1	1.7	4.8	
27-Jul-06	0	0	A	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
28-Jul-06	0	A	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	2	1	0	1	0	0	0.5	2.4
29-Jul-06	A	0	1	1	1	2	2	3	4	3	3	5	13	5	2	2	2	2	2	2	7	4	4	2	A	3.1	12.6
30-Jul-06	6	0	0	0	0	3	1	1	1	2	1	1	0	1	1	0	0	3	1	1	1	1	A	1	1.2	6.1	
31-Jul-06	4	1	1	1	0	3	2	3	5	3	4	2	1	2	1	1	1	1	1	1	0	A	1	0	1.7	5.4	
Hourly Avg	0.9	1.0	0.9	1.1	0.7	3.3	4.4	3.9	3.3	2.8	1.5	1.4	1.6	1.3	1.0	1.2	1.1	1.1	1.3	0.9	1.1	0.6	0.8	0.9			
Hourly Max	7.6	4.7	7.3	9.2	2.7	9.0	12.5	13.1	17.8	16.6	4.6	5.3	12.6	4.5	2.4	4.8	3.1	3.5	7.8	6.6	5.9	3.5	4.1	5.8			



Station: Crescent Heights
 Station Owner: PAS

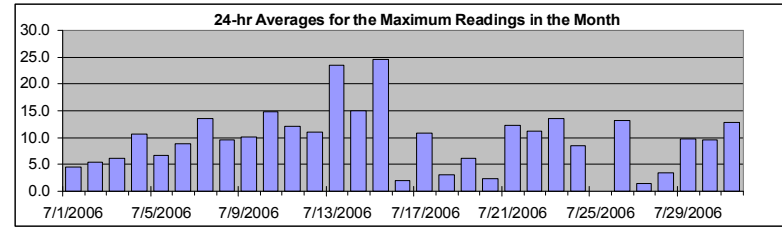
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Nitric Oxide (NO)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	145.4	ppb	15-Jul	2:00 3:00
Maximum 24-hr Value:	24.7	ppb	15-Jul	



AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	87.2	49.1	8.1	2.3	1.4	1.0	0.8	9.9 ppb	2.3 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum	
1-Jul-06	1	16	1	1	2	22	11	12	3	3	A	2	4	2	3	7	3	1	1	1	1	2	2	2	4.6	22.3	
2-Jul-06	1	2	1	3	15	1	54	2	5	A	6	5	6	6	1	1	2	1	1	1	1	1	1	5	5.4	53.8	
3-Jul-06	4	76	1	4	1	6	17	13	A	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	6.1	75.9	
4-Jul-06	87	1	1	1	4	15	28	A	28	20	43	2	2	1	1	2	2	1	1	1	1	1	1	1	10.7	86.6	
5-Jul-06	10	1	17	59	2	21	A	2	2	2	2	14	2	3	1	1	1	1	3	1	1	1	2	4	6.7	59.2	
6-Jul-06	1	13	29	28	2	A	67	5	6	3	3	3	5	4	3	22	2	2	2	2	1	1	1	1	8.9	67.3	
7-Jul-06	3	5	2	1	A	23	96	3	6	3	2	2	2	2	2	4	21	7	18	2	2	2	93	10	13.5	96.5	
8-Jul-06	2	79	90	A	1	3	2	8	8	7	3	2	2	2	1	1	1	1	1	1	1	1	1	1	9.6	89.7	
9-Jul-06	1	1	A	2	2	3	2	2	1	2	50	50	2	1	1	31	25	25	1	2	21	3	1	1	10.1	49.6	
10-Jul-06	15	A	1	1	2	12	10	19	5	6	6	10	47	2	18	3	4	41	22	16	61	36	1	2	14.8	61.3	
11-Jul-06	A	10	47	1	1	29	8	6	3	3	2	2	5	5	4	64	50	3	3	2	12	1	1	A	12.0	64.1	
12-Jul-06	1	1	22	1	2	11	35	27	6	3	2	20	2	4	7	3	20	4	1	2	13	1	A	62	11.0	61.8	
13-Jul-06	2	2	2	131	38	26	5	23	2	3	4	3	14	5	31	75	6	38	59	9	7	A	2	53	23.4	130.6	
14-Jul-06	1	3	1	19	2	53	6	3	3	4	2	27	6	8	4	19	5	7	21	3	A	2	63	83	15.1	83.3	
15-Jul-06	16	1	145	86	1	30	3	2	3	30	5	41	4	11	4	30	5	10	8	A	2	21	21	87	24.7	145.4	
16-Jul-06	1	1	1	1	1	4	4	2	2	1	1	1	2	4	2	2	2	1	A	1	9	1	1	1	2.0	8.8	
17-Jul-06	1	1	1	1	1	112	8	5	2	2	1	10	43	12	2	4	2	A	3	2	34	2	1	2	10.9	111.9	
18-Jul-06	1	21	1	3	2	1	2	7	5	3	2	1	2	1	1	9	A	2	1	1	1	1	1	1	3.1	21.1	
19-Jul-06	1	1	1	1	1	31	8	10	8	12	7	2	3	35	2	A	6	4	2	2	2	2	1	1	6.1	35.3	
20-Jul-06	1	1	1	1	1	1	3	3	9	15	1	2	2	1	A	1	2	2	1	2	1	1	1	1	2.4	14.9	
21-Jul-06	1	29	1	1	1	56	11	6	43	8	5	9	4	A	2	15	1	20	2	19	27	8	11	6	12.4	56.1	
22-Jul-06	3	5	1	1	51	36	58	29	26	28	2	2	A	3	2	1	1	1	1	1	1	1	1	1	11.2	58.1	
23-Jul-06	1	2	1	40	7	27	13	60	6	4	22	A	4	19	50	2	39	2	2	3	2	2	2	1	13.5	60.2	
24-Jul-06	1	34	2	1	1	33	36	15	12	7	A	17	17	2	2	1	2	2	1	2	2	3	1	2	8.5	35.8	
25-Jul-06	2	10	1	1	10	30	9	62	11	A	2	C	C	C	C	C	A	2	2	4	3	1	2	1	N	62.4	
26-Jul-06	1	7	A	2	3	8	11	3	6	7	3	2	10	3	30	2	40	8	109	28	11	4	4	2	13.3	109.2	
27-Jul-06	1	1	A	1	3	1	2	2	1	2	1	1	1	1	1	3	1	1	2	2	1	1	1	2	1.5	3.1	
28-Jul-06	1	A	1	1	2	2	2	3	2	1	1	2	3	7	5	3	1	1	30	3	2	2	2	1	3.4	29.5	
29-Jul-06	A	2	2	2	3	4	4	5	5	23	8	9	37	15	4	14	7	3	5	40	10	10	3	A	9.7	39.8	
30-Jul-06	87	1	1	1	2	26	3	4	2	6	3	37	2	2	2	4	2	26	3	2	2	1	A	3	9.7	87.2	
31-Jul-06	77	1	2	2	2	63	6	37	26	7	19	3	3	31	3	2	2	2	2	2	2	2	A	2	1	12.8	76.9
Hourly Avg	11.3	11.3	13.6	13.3	5.5	23.1	17.5	12.7	8.2	7.5	7.2	9.7	8.2	6.8	6.6	11.3	8.9	7.4	10.3	5.2	7.8	3.9	7.8	11.6			
Hourly Max	87.2	79.3	145.4	130.6	51.4	111.9	96.5	62.4	43.1	29.7	49.6	49.6	47.3	35.3	49.8	74.9	50.5	40.5	109.2	39.8	61.3	36.3	93.4	86.6			



PAS - Crescent Heights - Oxides of Nitrogen Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

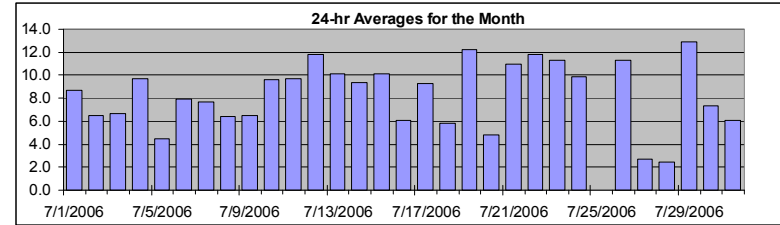
Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2006 to August 1, 2006

Guideline Limit: Alberta Environment:

1-hr	na	ppb
24-hr	na	ppb

Maximum 1-hr Average:	39.1	ppb	22-Jul	8:00 9:00
Maximum 24-hr Average:	12.9	ppb	29-Jul	



AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	29.4	20.6	10.9	6.8	4.2	1.7	0.0	8.4 ppb	6.8 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jul-06	8	8	8	11	10	15	18	20	8	5	A	5	6	4	6	4	6	2	3	7	6	6	16	17	8.7	20.1
2-Jul-06	10	9	8	7	8	5	6	5	6	A	14	14	13	7	2	2	4	1	2	4	3	3	4	10	6.5	14.2
3-Jul-06	8	14	4	10	9	12	18	17	A	9	6	4	3	2	2	2	2	2	4	8	3	5	8	6.7	18.0	
4-Jul-06	23	6	5	6	12	25	31	A	33	15	5	4	4	3	4	5	5	4	5	6	8	6	5	3	9.7	33.5
5-Jul-06	2	1	3	5	3	7	A	10	7	5	4	5	4	4	3	2	2	2	3	7	5	3	11	7	4.5	11.2
6-Jul-06	4	4	13	13	10	A	25	17	12	9	7	5	5	8	5	5	4	5	5	6	4	4	6	5	7.9	25.1
7-Jul-06	5	4	7	5	A	12	12	9	13	5	5	4	4	4	4	7	8	14	6	6	13	11	13	6	7.7	14.2
8-Jul-06	5	10	8	A	12	10	6	13	17	15	5	3	2	2	3	2	1	1	3	5	7	10	4	6.4	17.4	
9-Jul-06	4	4	A	14	10	13	6	4	3	2	7	6	3	2	2	3	3	5	4	8	20	15	4	7	6.5	20.3
10-Jul-06	7	A	7	6	8	21	20	11	8	11	9	4	6	5	6	10	14	13	12	6	12	10	6	11	9.6	20.8
11-Jul-06	A	13	17	9	8	20	16	9	7	4	4	4	5	7	6	8	11	7	8	8	20	11	10	A	9.7	20.5
12-Jul-06	12	13	11	6	10	17	29	31	11	7	7	18	5	6	8	9	13	13	7	5	12	6	A	14	11.8	31.3
13-Jul-06	10	7	7	10	6	8	10	7	3	6	6	4	8	7	5	11	6	11	26	19	23	A	11	22	10.1	25.8
14-Jul-06	5	14	5	15	9	14	12	7	6	5	3	9	8	7	3	12	7	6	19	4	A	12	17	14	9.3	18.7
15-Jul-06	8	8	17	20	5	6	6	6	5	12	9	11	7	6	4	11	10	3	8	A	20	21	15	15	10.1	21.3
16-Jul-06	7	8	9	7	10	13	7	3	3	2	2	2	4	5	3	4	3	2	A	7	10	12	13	7	6.1	12.9
17-Jul-06	11	9	11	10	11	17	12	6	3	2	2	5	5	4	4	5	4	A	13	11	17	20	14	16	9.2	20.1
18-Jul-06	8	14	7	7	8	8	5	7	8	7	3	2	2	2	2	4	A	7	4	4	4	8	6	6	5.8	13.6
19-Jul-06	8	11	9	11	12	23	25	19	15	22	9	4	6	12	7	A	22	18	10	8	12	7	9	5	12.2	25.0
20-Jul-06	3	4	4	5	4	5	7	5	4	4	3	3	2	2	A	6	4	3	3	4	3	7	14	11	4.8	14.3
21-Jul-06	8	12	8	5	6	16	19	10	13	18	9	6	6	A	8	6	5	4	4	9	24	10	27	20	10.9	26.6
22-Jul-06	18	18	9	8	10	21	25	24	39	39	5	3	A	9	4	3	2	3	3	6	5	4	4	8	11.8	39.1
23-Jul-06	7	9	10	17	21	20	23	19	14	15	A	9	12	7	4	6	4	5	20	10	4	4	4	4	11.3	23.5
24-Jul-06	8	11	9	9	10	21	25	26	12	12	A	9	12	5	5	4	4	5	4	4	9	8	8	8	9.9	26.5
25-Jul-06	13	22	12	9	9	16	16	25	14	A	6	C	C	C	C	C	A	3	3	10	9	4	6	7	N	25.4
26-Jul-06	9	10	A	11	15	18	11	4	10	13	4	3	6	8	8	6	7	5	13	10	25	18	28	18	11.3	28.2
27-Jul-06	10	3	A	10	6	7	6	6	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	2.7	10.4
28-Jul-06	0	A	6	1	0	2	2	0	0	0	0	0	1	3	12	9	4	1	6	2	2	2	2	2	2.5	12.4
29-Jul-06	A	5	6	6	6	9	7	7	9	7	7	15	33	15	6	7	8	13	17	29	36	24	10	A	12.9	36.2
30-Jul-06	19	6	6	6	6	15	8	9	6	8	5	6	3	5	7	7	6	11	8	2	4	4	A	12	7.4	19.2
31-Jul-06	11	5	5	4	5	8	8	7	13	8	9	4	2	6	3	3	2	4	3	6	4	A	15	4	6.1	14.7
Hourly Avg	8.7	9.0	8.2	8.8	8.6	13.4	14.0	11.5	10.2	9.2	5.9	5.6	6.0	5.6	4.8	5.6	6.0	5.7	6.9	7.5	11.1	8.6	10.2	9.3		
Hourly Max	23.1	21.9	16.7	20.0	20.6	24.9	30.9	31.3	39.1	38.9	14.8	17.7	32.9	15.3	12.4	12.5	21.7	18.2	25.8	29.4	36.2	24.4	28.2	22.0		

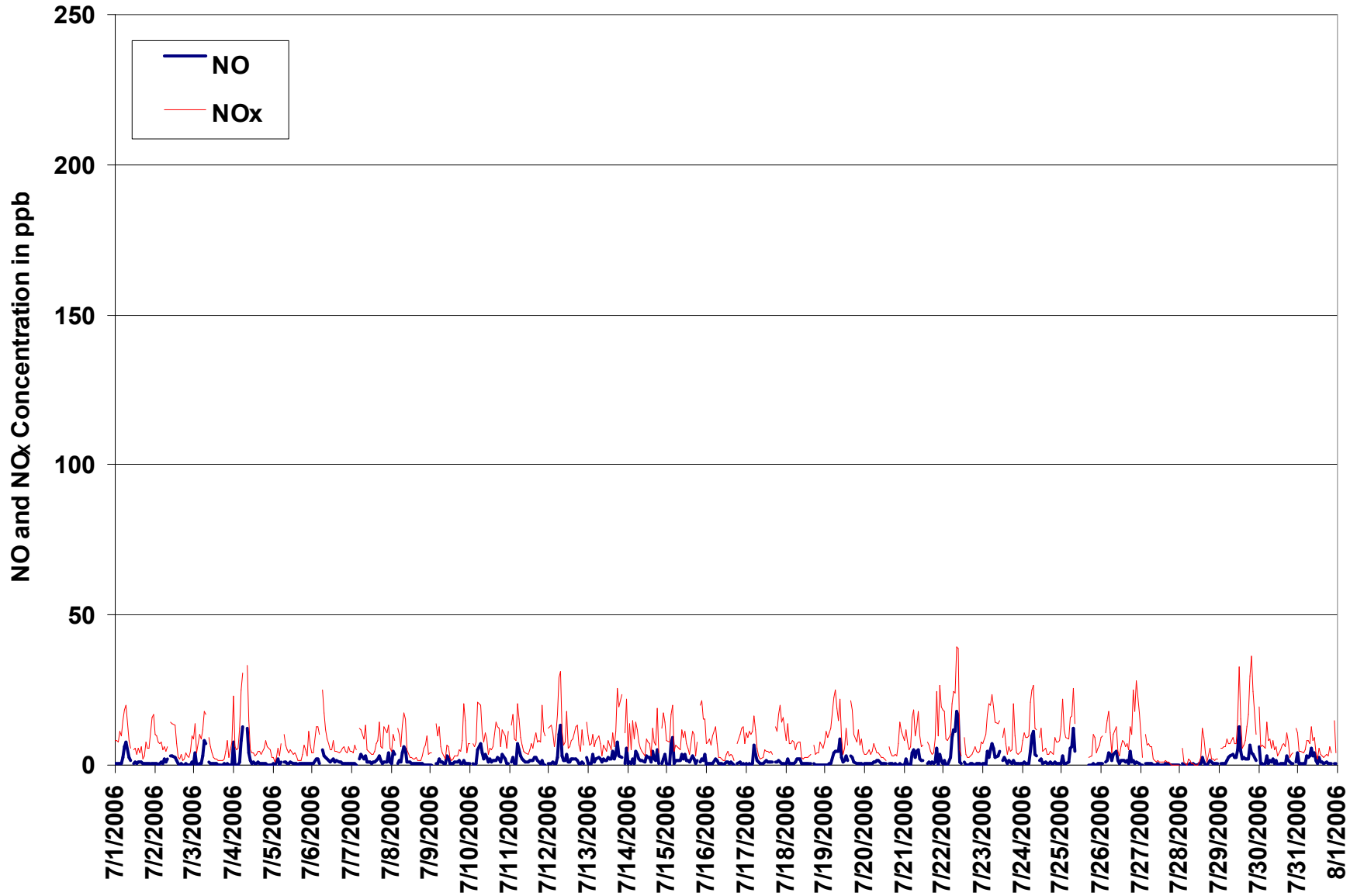


Figure 3. PAS - Crescent Heights Oxides of Nitrogen 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

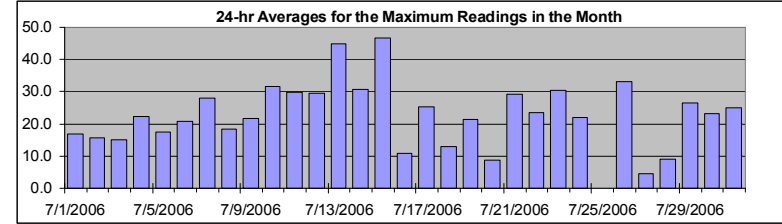
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Oxides of Nitrogen (NO_x)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	180.7	ppb	13-Jul	3:00 4:00
Maximum 24-hr Value:	46.7	ppb	15-Jul	



AIC Time:	34 hrs	Operational Time:	705 hrs						
Calibration Time:	5 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	130.7	77.5	27.8	13.4	7.3	3.0	1.7	23.2 ppb	13.4 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-06	14	37	12	19	14	40	27	30	9	8	A	6	17	7	13	15	13	3	5	11	13	15	28	28	16.7	40.4
2-Jul-06	14	14	16	15	35	7	80	6	13	A	24	18	32	19	4	3	7	3	4	6	5	4	10	25	15.8	80.4
3-Jul-06	25	106	9	24	10	16	32	25	A	13	8	8	4	3	3	4	3	4	4	9	13	5	10	10	15.2	106.3
4-Jul-06	129	8	6	8	18	35	50	A	58	43	62	7	7	4	6	8	8	6	6	7	11	11	9	7	22.4	128.5
5-Jul-06	30	3	39	99	6	36	A	15	9	7	6	35	8	11	6	2	3	3	11	9	8	6	35	14	17.4	98.9
6-Jul-06	9	32	65	45	13	A	95	24	21	12	10	8	15	13	13	36	6	9	10	10	6	9	7	20.9	95.0	
7-Jul-06	11	17	11	7	A	53	131	13	19	10	7	7	6	7	8	16	53	28	44	14	26	15	114	27	27.9	130.7
8-Jul-06	7	111	114	A	18	13	8	21	21	19	10	4	4	5	5	5	3	3	3	7	7	13	16	6	18.3	114.0
9-Jul-06	8	7	A	18	14	21	8	5	4	4	75	70	5	3	3	60	44	46	7	13	38	30	6	11	21.8	75.1
10-Jul-06	49	A	10	10	15	30	25	31	12	17	16	23	71	9	40	15	27	71	52	34	90	62	7	15	31.8	89.9
11-Jul-06	A	26	86	10	10	49	22	16	9	6	6	7	15	15	19	121	110	14	22	19	49	16	14	A	29.9	120.8
12-Jul-06	14	17	50	8	16	38	61	54	17	10	11	62	11	16	20	14	49	32	15	12	45	9	A	99	29.6	98.9
13-Jul-06	11	11	11	181	56	43	15	42	4	11	13	9	37	14	49	112	19	78	104	42	48	A	28	97	44.9	180.7
14-Jul-06	8	32	8	50	13	84	17	10	8	9	4	38	17	21	12	38	17	22	56	19	A	20	88	115	30.7	114.8
15-Jul-06	45	10	171	120	7	48	8	8	8	50	19	79	14	33	16	55	22	28	30	A	36	57	62	150	46.7	170.5
16-Jul-06	12	16	18	9	13	17	16	4	4	3	3	3	6	13	7	7	7	3	A	12	34	15	18	11	10.9	34.3
17-Jul-06	13	10	15	11	15	154	21	13	5	3	4	31	64	26	7	15	7	A	21	15	63	27	17	26	25.4	153.9
18-Jul-06	12	55	20	15	19	10	8	17	17	12	7	5	5	5	4	24	A	11	5	6	6	13	10	9	12.8	55.5
19-Jul-06	12	16	13	18	15	64	29	32	21	28	17	5	11	70	9	A	31	26	14	12	15	14	11	21.5	69.9	
20-Jul-06	4	4	5	7	5	6	11	10	19	22	4	5	4	3	A	9	5	4	4	5	5	16	25	18	8.8	25.1
21-Jul-06	9	55	9	7	9	85	29	17	71	25	17	16	15	A	10	29	7	29	6	55	70	29	42	32	29.3	85.3
22-Jul-06	22	28	12	10	74	58	78	52	52	54	8	6	A	17	5	4	3	6	5	9	8	7	8	16	23.6	78.2
23-Jul-06	13	13	14	67	28	45	32	84	25	17	47	A	21	46	75	7	68	8	7	33	21	12	5	10	30.3	83.6
24-Jul-06	10	56	12	11	12	58	57	33	33	22	A	42	60	8	12	5	6	6	5	8	13	11	11	14	22.0	60.1
25-Jul-06	24	36	14	11	22	47	21	86	25	A	8	C	C	C	C	A	5	5	24	22	8	18	11	N	85.7	
26-Jul-06	12	31	A	13	21	27	26	6	17	19	8	7	36	16	58	10	62	27	159	64	48	36	36	27	33.2	158.5
27-Jul-06	15	5	A	14	9	10	10	11	4	4	2	2	2	2	2	4	2	2	2	1	1	1	0	0	4.6	15.5
28-Jul-06	0	A	14	3	2	5	5	3	2	3	2	2	4	22	23	17	9	7	68	4	3	3	4	3	8.9	67.5
29-Jul-06	A	8	7	9	9	12	10	10	12	37	18	23	74	41	10	32	25	20	30	90	51	44	13	A	26.5	90.0
30-Jul-06	138	8	13	10	15	47	17	16	8	16	8	64	6	9	11	19	14	58	17	8	5	5	A	21	23.1	137.6
31-Jul-06	131	7	9	7	7	91	16	60	47	16	35	9	5	51	7	5	4	7	7	10	8	A	26	6	24.9	131.1
Hourly Avg	27.6	26.9	28.0	27.9	17.3	41.8	32.1	25.1	19.1	17.2	15.7	20.7	19.9	17.6	15.7	23.7	21.8	19.0	24.2	18.9	25.8	17.5	23.5	28.5		
Hourly Max	137.6	110.9	170.5	180.7	74.1	153.9	130.7	85.7	70.9	54.4	75.1	78.9	74.2	69.9	74.7	120.8	109.7	78.1	158.5	90.0	89.9	62.0	113.6	150.0		

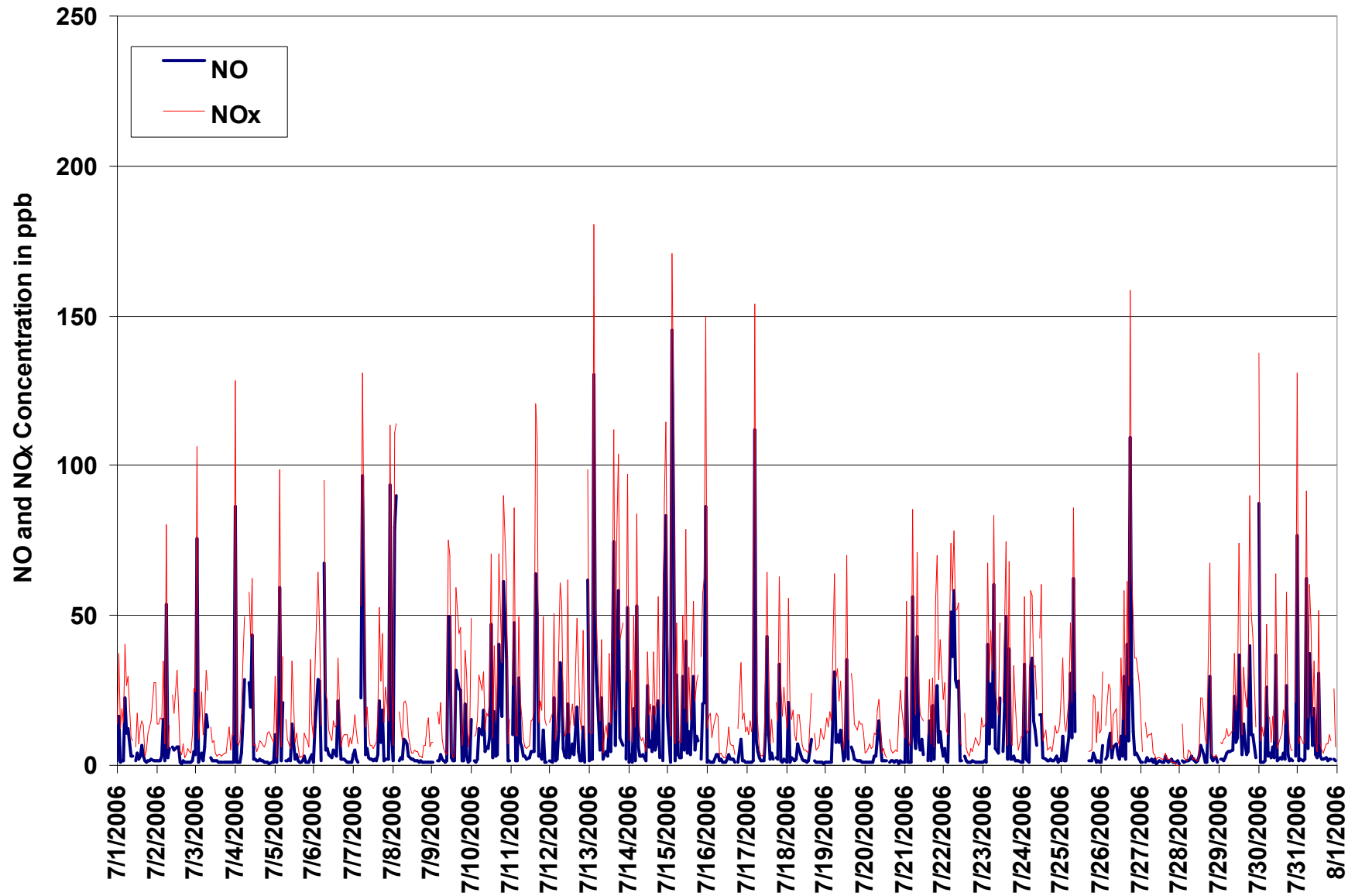


Figure 4. PAS - Crescent Heights Oxides of Nitrogen Instantaneous (30 Second) Maximum Value Monthly Trend



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

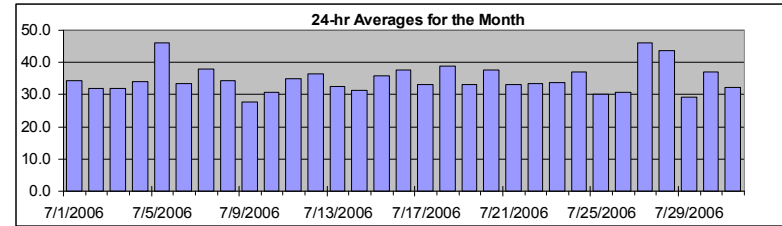
Ozone (O₃)

Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 1-hr 82 ppb 24-hr na ppb
Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	64.4 ppb	28-Jul	13:00 14:00
Maximum 24-hr Average:	46.2 ppb	5-Jul	

AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	61.1	55.4	46.0	35.2	24.0	13.5	7.3	34.9 ppb	35.2 ppb



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum			
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-06	29	22	21	15	16	14	13	21	31	40	A	51	54	56	51	49	47	50	49	39	39	37	25	20		34.4	56.0	
2-Jul-06	22	23	22	16	15	20	20	22	24	A	27	35	36	45	55	56	54	50	49	41	32	29	26	20		32.1	55.6	
3-Jul-06	16	15	19	12	10	7	9	16	A	34	42	46	51	51	50	51	49	47	46	41	35	37	28	20		31.9	50.9	
4-Jul-06	17	23	22	18	9	6	10	A	19	33	42	46	48	49	50	50	50	50	47	42	35	35	38	44		34.1	50.5	
5-Jul-06	45	46	46	45	46	42	A	46	48	50	51	54	55	53	51	52	51	48	43	37	41	41	36	35		46.2	55.3	
6-Jul-06	34	29	25	19	20	A	14	19	20	21	30	37	39	41	46	47	48	46	48	48	41	39	29	29		33.5	48.5	
7-Jul-06	29	29	26	28	A	27	26	35	41	48	53	56	53	53	52	49	49	43	45	40	28	24	20	21		38.1	55.5	
8-Jul-06	24	22	25	A	24	21	26	23	25	31	42	42	43	45	46	46	46	46	45	43	37	34	24	30		34.3	46.3	
9-Jul-06	26	24	A	18	19	15	22	25	30	34	36	30	31	33	34	35	34	34	34	30	17	22	28	24		27.6	36.1	
10-Jul-06	26	A	27	24	21	12	14	23	29	30	36	43	41	39	40	34	33	35	37	40	34	29	36	26		30.8	42.9	
11-Jul-06	A	24	20	19	20	14	17	25	27	32	38	45	46	48	51	50	50	52	51	50	36	32	25	A		35.1	52.2	
12-Jul-06	26	22	27	33	24	21	18	19	35	43	46	39	53	58	51	49	43	40	45	48	36	41	A	24		36.4	57.7	
13-Jul-06	23	22	21	19	26	26	27	35	39	39	40	41	38	38	39	38	44	42	32	31	25	A	35	29		32.5	43.8	
14-Jul-06	39	27	29	24	27	21	20	26	32	39	43	37	35	33	36	32	38	39	32	38	A	34	17	19		31.3	43.3	
15-Jul-06	23	22	19	19	21	19	22	28	33	38	44	46	50	52	54	50	50	57	52	A	39	33	29	27		35.9	57.2	
16-Jul-06	31	37	35	29	23	19	29	39	43	46	46	45	43	42	45	46	48	51	A	47	37	31	26	28		37.7	50.7	
17-Jul-06	20	18	15	14	11	15	19	28	33	38	43	51	56	55	55	53	55	A	50	44	33	22	20	17		33.3	55.7	
18-Jul-06	27	31	30	24	29	28	28	30	36	40	47	48	49	49	51	54	A	51	51	49	44	34	33	32		38.9	53.7	
19-Jul-06	28	24	23	22	22	14	12	18	25	23	36	45	47	45	51	A	42	43	48	48	41	40	29	34		33.0	51.1	
20-Jul-06	34	34	32	28	30	26	26	28	32	34	38	43	49	51	A	53	54	54	53	50	42	34	21	23		37.8	54.2	
21-Jul-06	23	20	19	23	22	17	19	30	34	36	46	51	52	A	57	56	52	49	46	37	24	26	8	10		33.0	57.4	
22-Jul-06	8	7	13	11	12	10	14	20	17	26	55	53	A	57	61	57	55	52	50	44	43	41	37	29		33.5	61.1	
23-Jul-06	24	20	16	12	4	5	7	15	20	24	28	A	50	55	62	61	56	55	50	36	42	47	46	40		33.7	62.2	
24-Jul-06	33	26	22	22	20	10	13	16	33	42	A	46	46	53	58	61	63	62	60	51	36	28	26	23		36.9	62.9	
25-Jul-06	16	5	7	8	10	9	12	14	27	A	44	45	43	46	45	45	47	48	44	33	33	39	37	35		30.1	47.7	
26-Jul-06	29	27	A	15	11	10	17	26	26	31	C	C	A	55	57	56	52	48	44	41	21	24	8	17		30.8	56.9	
27-Jul-06	23	30	A	27	33	33	36	41	46	51	51	56	57	58	60	61	62	61	58	50	44	41	41	40		46.0	61.7	
28-Jul-06	37	A	36	37	36	30	33	34	39	45	49	52	58	64	57	60	58	61	53	43	36	30	28	27		43.7	64.4	
29-Jul-06	A	22	20	16	14	11	15	17	24	31	34	35	35	53	54	53	51	45	36	28	10	17	25	A		29.4	53.6	
30-Jul-06	33	34	29	33	28	15	18	17	25	29	37	44	49	50	53	54	55	48	45	41	41	41	A	35		37.1	54.9	
31-Jul-06	37	32	29	27	22	19	24	28	30	35	36	37	39	38	38	39	40	40	40	40	36	37	A	18	18		32.2	40.4
Hourly Avg	26.9	24.8	24.1	22.0	20.8	18.0	19.2	25.4	30.7	35.9	41.5	44.8	46.4	48.9	50.3	49.9	49.2	48.3	46.1	41.5	34.6	33.3	27.5	26.8				
Hourly Max	44.6	46.5	46.0	45.4	45.6	42.5	36.2	45.6	47.5	50.6	54.6	56.4	58.0	64.4	62.2	61.2	62.9	62.1	60.0	51.3	43.8	47.2	45.9	43.5				

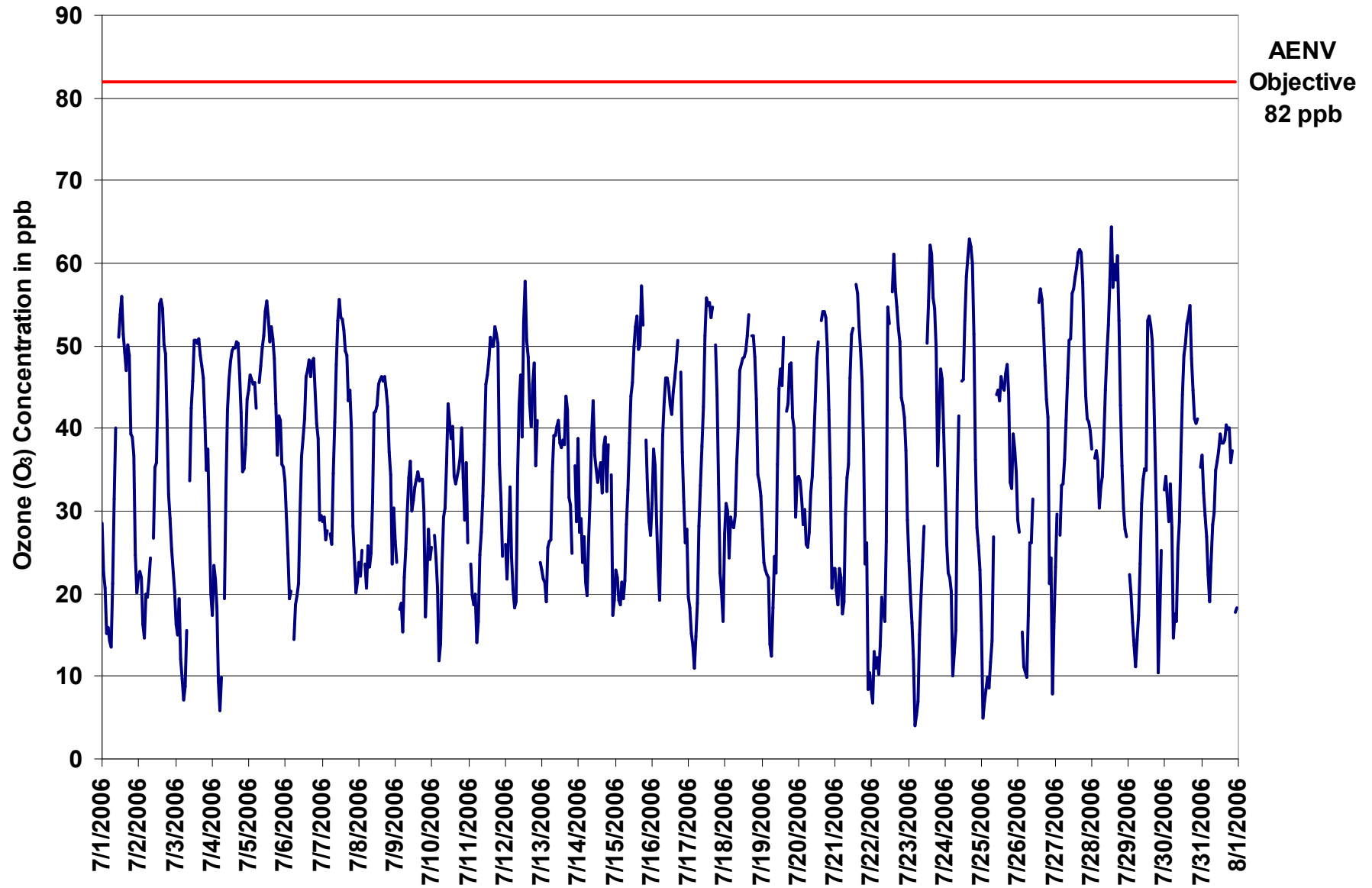


Figure 5. PAS - Crescent Heights Ozone 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

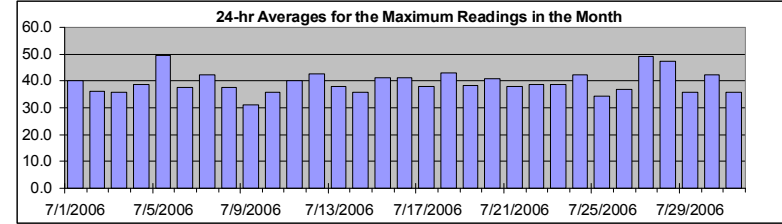
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Ozone (O₃)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	68.4	ppb	28-Jul	13:00 14:00
Maximum 24-hr Value:	49.3	ppb	5-Jul	



AIC Time:	34 hrs	Operational Time:	708 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	64.5	59.3	49.6	40.7	28.8	17.8	11.4	39.5 ppb	40.7 ppb

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	24-hour Average	Daily Maximum
1-Jul-06	33	28	27	23	19	19	17	33	36	46	A	54	57	59	54	52	52	52	66	46	43	42	36	27	40.0	66.0
2-Jul-06	25	27	26	22	17	23	21	26	28	A	31	38	43	52	58	58	57	54	52	47	36	31	30	30	36.2	58.3
3-Jul-06	20	20	22	20	12	10	11	22	A	38	48	50	53	53	52	53	51	50	48	47	40	40	32	26	35.6	53.5
4-Jul-06	26	27	25	23	17	12	17	A	29	44	46	48	51	52	52	53	53	53	50	46	39	39	42	47	38.8	53.5
5-Jul-06	46	48	48	48	48	46	A	47	51	52	53	57	58	57	53	54	53	51	48	40	44	43	47	41	49.3	58.4
6-Jul-06	39	32	32	24	24	A	18	25	23	27	35	39	41	49	49	52	52	50	52	54	44	44	32	31	37.8	54.3
7-Jul-06	33	32	31	33	A	29	29	41	46	50	58	58	55	57	54	53	53	51	49	44	36	30	25	26	42.4	58.1
8-Jul-06	28	26	28	A	28	24	28	27	29	38	45	46	46	47	48	49	49	48	46	46	39	41	29	33	37.8	49.2
9-Jul-06	32	26	A	20	24	23	25	29	32	37	40	34	33	34	35	37	36	36	36	36	23	29	30	30	31.2	39.6
10-Jul-06	31	A	28	27	24	15	19	28	33	36	43	45	44	42	44	44	42	42	42	45	42	35	39	31	35.7	45.5
11-Jul-06	A	28	25	23	23	23	21	29	29	36	44	49	50	53	54	54	56	57	57	55	48	38	29	A	40.1	57.3
12-Jul-06	27	28	33	36	35	31	29	29	42	45	49	45	60	61	56	54	49	46	52	54	44	46	A	32	42.8	61.0
13-Jul-06	26	25	28	23	28	29	31	40	41	43	43	43	43	42	42	43	48	48	46	44	41	A	39	41	38.1	48.4
14-Jul-06	41	37	31	30	29	26	24	31	36	44	46	42	40	37	38	40	42	43	42	41	A	40	22	24	35.9	46.1
15-Jul-06	26	29	25	25	24	21	25	33	35	44	48	51	55	56	56	55	57	60	58	A	52	47	34	32	41.1	59.8
16-Jul-06	34	41	41	34	27	23	36	42	46	47	47	47	45	44	46	49	50	53	A	49	43	36	31	32	41.1	52.7
17-Jul-06	24	20	18	15	14	21	25	33	37	41	48	55	59	58	59	57	58	A	56	50	42	32	26	26	37.9	59.1
18-Jul-06	35	38	36	31	34	30	30	36	42	46	49	50	50	52	53	58	A	53	53	52	48	42	37	36	43.0	57.7
19-Jul-06	32	30	27	27	34	23	18	25	28	29	42	48	49	50	54	A	49	48	51	52	45	44	37	37	38.3	53.6
20-Jul-06	36	35	34	31	32	28	30	29	35	37	41	47	51	53	A	54	56	56	55	54	44	43	28	27	40.7	56.0
21-Jul-06	25	24	22	25	24	24	25	39	40	44	52	55	55	A	59	59	55	51	49	45	35	32	17	20	38.1	59.3
22-Jul-06	16	12	15	14	16	17	21	27	22	51	59	59	A	63	63	61	56	55	53	49	45	43	39	37	38.8	63.1
23-Jul-06	26	25	19	19	8	9	13	21	25	29	36	A	57	64	66	63	61	58	54	48	45	51	49	45	38.9	65.6
24-Jul-06	35	30	28	26	24	16	18	26	40	52	A	51	57	59	63	63	65	64	62	58	46	31	29	27	42.2	65.3
25-Jul-06	25	11	11	10	12	11	15	21	34	A	47	47	47	47	48	47	49	50	47	41	41	43	41	40	34.2	50.5
26-Jul-06	34	37	A	17	17	16	24	28	30	39	C	C	A	60	61	58	58	52	51	47	41	30	15	22	36.9	60.6
27-Jul-06	28	32	A	31	36	35	42	47	48	55	58	59	58	61	62	63	65	64	61	54	47	43	42	42	49.3	64.7
28-Jul-06	40	A	38	39	38	33	36	38	43	48	51	54	64	68	66	67	64	63	63	46	39	32	29	28	47.3	68.4
29-Jul-06	A	25	22	21	16	13	16	20	28	35	38	41	59	64	59	56	58	51	45	46	21	25	29	A	35.9	64.5
30-Jul-06	40	37	33	41	42	21	21	22	28	32	44	48	54	54	58	59	62	55	51	46	43	43	A	41	42.4	62.2
31-Jul-06	41	38	32	32	24	22	28	33	36	39	41	40	41	41	40	41	43	43	43	41	41	A	20	20	35.6	43.5
Hourly Avg	31.2	29.2	28.1	26.3	25.0	22.5	23.8	30.8	35.0	41.5	45.8	48.4	51.0	53.0	53.4	53.6	53.4	52.0	51.2	47.5	41.2	38.4	32.3	32.0		
Hourly Max	46.4	47.7	47.7	48.5	48.3	46.2	42.4	47.3	50.9	55.2	59.2	59.3	64.3	68.4	65.7	67.3	65.3	64.5	66.0	58.3	52.3	51.1	49.5	46.5		

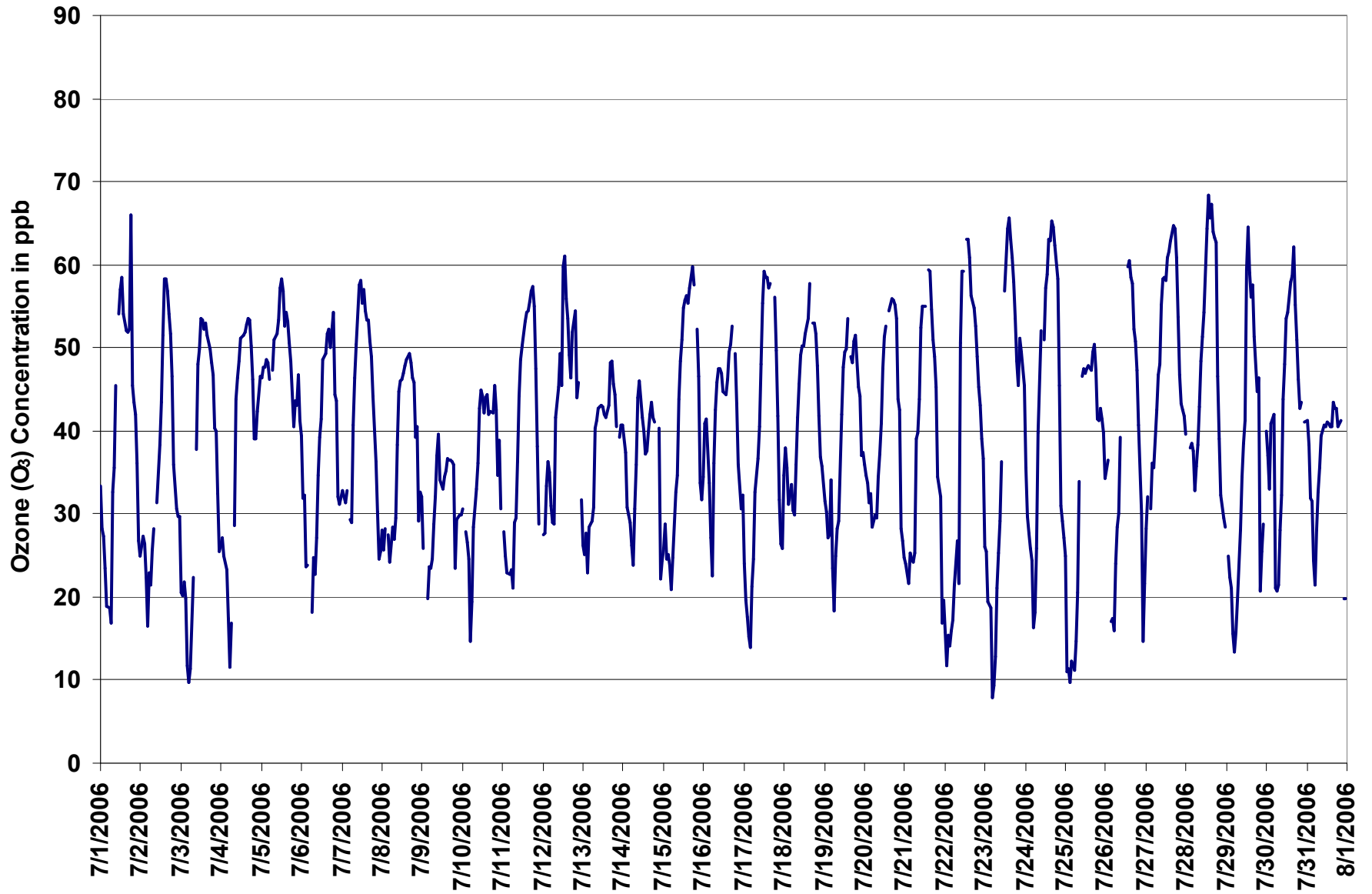
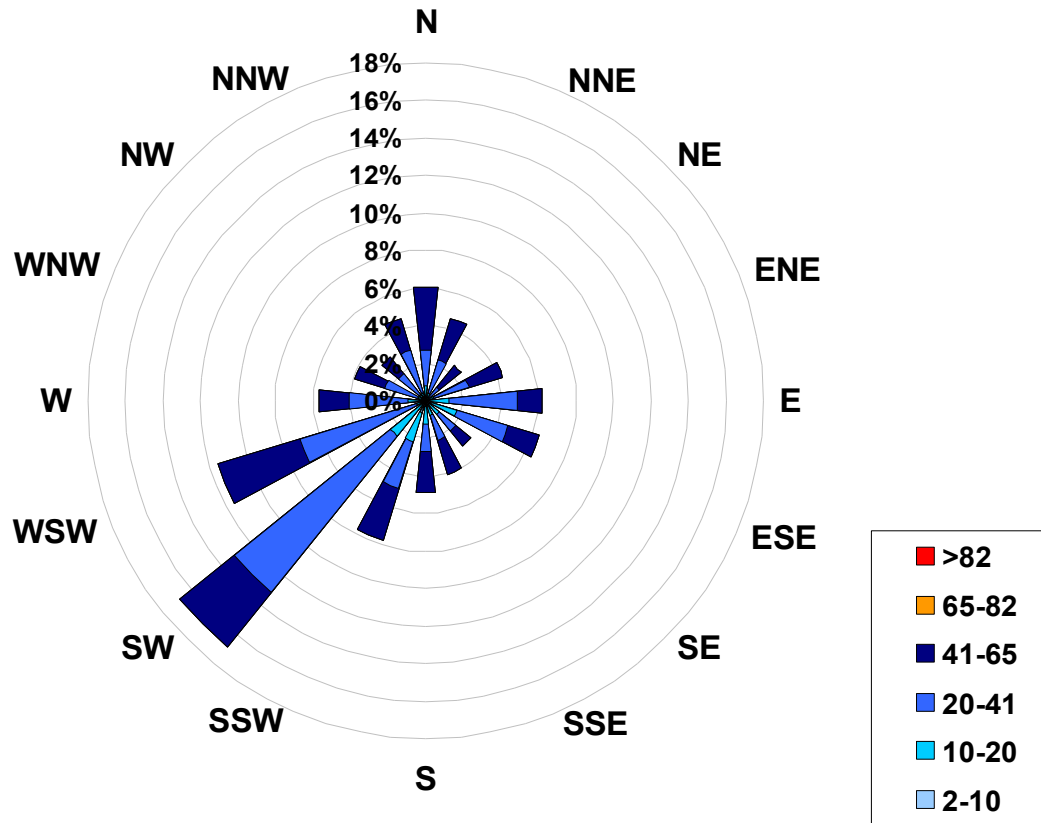


Figure 6. PAS - Crescent Heights Ozone Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Ozone (in ppb) Located at the Crescent Heights Site for July 2006



Calms: 0%

Frequency Distribution of O ₃ in ppb			
Range		Frequency (hrs)	
2.0	< 10	20	
10	to 20	92	
20	to 41	339	
41	to 65	257	
65	to 82	0	
	> 82	0	
Total Non-Zero Values			708



PAS - Crescent Heights - Ozone Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

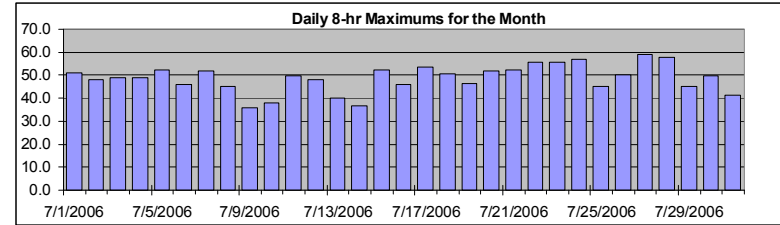
Ozone (O₃)

Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 8-hr 65 ppb
Summary

Number of 8-hr Exceedances:	0			
Maximum 8-hr Average:	59.1	ppb	27-Jul	18:00 19:00

Percentile	99	95	75	50	25	5	1
	56.7	51.9	43.9	34.9	26.5	18.4	12.4



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-06	38	35	32	29	26	24	21	19	19	22	22	27	32	38	44	48	50	51	51	49	48	45	42	38		51.2
2-Jul-06	35	32	28	25	22	20	20	20	20	20	20	23	26	30	35	40	44	45	48	48	48	46	42	38		48.3
3-Jul-06	33	29	25	21	18	16	14	13	13	15	18	23	29	35	41	46	47	48	49	48	46	45	42	38		48.8
4-Jul-06	34	31	28	25	22	18	16	15	15	17	20	24	29	35	41	42	46	48	49	48	47	45	43	43		48.8
5-Jul-06	42	41	41	42	43	44	45	45	46	46	47	48	49	51	51	52	52	52	51	49	47	46	44	42		52.2
6-Jul-06	39	37	35	33	30	28	25	23	21	20	20	23	26	28	32	35	39	42	44	46	46	45	43	41		45.8
7-Jul-06	39	37	34	31	30	28	28	29	30	33	37	41	42	46	49	51	52	51	50	48	45	41	37	34		51.7
8-Jul-06	31	28	26	24	23	22	23	23	24	25	27	29	32	35	37	40	43	45	45	45	44	43	40	38		44.9
9-Jul-06	36	33	31	28	25	22	22	21	22	23	25	26	28	30	32	33	33	33	33	33	31	30	29	28		35.7
10-Jul-06	27	26	25	24	25	23	21	21	21	23	24	26	29	32	35	37	37	38	38	37	37	35	35	34		37.8
11-Jul-06	34	32	30	27	25	23	20	20	21	22	24	27	31	35	39	42	45	48	49	50	49	47	43	42		50.0
12-Jul-06	39	34	31	28	27	25	24	24	25	27	30	31	34	39	43	47	48	47	47	48	46	44	43	39		48.3
13-Jul-06	37	34	31	26	25	23	23	25	27	29	31	34	36	37	39	39	40	40	39	38	36	36	35	34		40.0
14-Jul-06	33	31	31	30	30	29	27	27	26	27	29	31	32	33	35	36	37	37	35	35	36	36	33	31		36.7
15-Jul-06	29	27	25	22	22	20	21	22	23	25	28	31	35	39	43	46	48	50	51	52	51	48	44	41		52.1
16-Jul-06	38	35	33	32	30	29	29	30	32	33	34	36	39	42	44	44	45	46	46	46	45	44	41	38		45.8
17-Jul-06	34	30	28	24	20	18	17	17	19	22	25	30	35	40	45	48	51	53	54	53	49	45	40	34		53.6
18-Jul-06	31	31	28	26	25	26	27	28	29	31	33	36	38	41	44	47	48	50	51	51	50	48	45	42		50.6
19-Jul-06	40	37	33	30	27	25	22	20	20	20	21	24	27	31	36	39	41	44	46	46	46	45	42	41		46.3
20-Jul-06	40	39	37	34	33	31	30	30	29	29	30	32	34	38	39	43	46	49	51	52	51	49	45	41		51.9
21-Jul-06	38	33	29	26	23	21	21	22	23	25	28	32	36	38	44	48	50	52	52	50	46	44	37	32		52.1
22-Jul-06	26	21	17	13	12	10	11	12	13	15	21	26	28	34	41	46	52	56	55	54	52	50	47	44		55.5
23-Jul-06	40	36	32	28	23	18	15	13	12	13	14	15	21	29	36	43	48	53	56	53	52	51	49	46		55.6
24-Jul-06	43	40	36	35	32	27	23	20	20	22	22	25	29	35	42	48	53	56	56	57	56	52	48	44		56.8
25-Jul-06	38	31	24	19	15	13	11	10	11	12	18	23	28	33	38	42	45	45	45	44	43	42	41	40		45.3
26-Jul-06	37	35	33	31	28	24	21	19	19	20	20	N	N	N	N	N	N	N	N	50	47	43	37	32		50.3
27-Jul-06	28	26	23	21	23	24	28	32	35	38	40	43	46	50	52	55	57	58	59	58	57	54	52	49		59.1
28-Jul-06	46	44	41	40	38	37	36	35	35	36	38	40	43	47	50	53	55	57	58	57	54	50	46	42		57.9
29-Jul-06	40	34	29	26	22	20	18	17	17	18	20	23	25	30	35	40	43	45	45	44	41	37	33	30		45.2
30-Jul-06	28	26	25	26	28	28	27	26	25	24	25	27	29	34	38	43	46	49	50	49	48	47	46	44		49.7
31-Jul-06	41	39	37	35	32	29	28	27	26	27	28	29	31	34	35	37	38	39	39	39	39	39	36	33		41.1
Hourly Max	46.4	44.3	41.3	41.7	43.1	44.0	44.9	45.2	45.6	46.1	46.8	48.1	49.4	51.0	52.5	55.0	57.0	58.3	59.1	58.3	56.6	54.5	52.1	49.4		



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

Carbon Monoxide (CO)

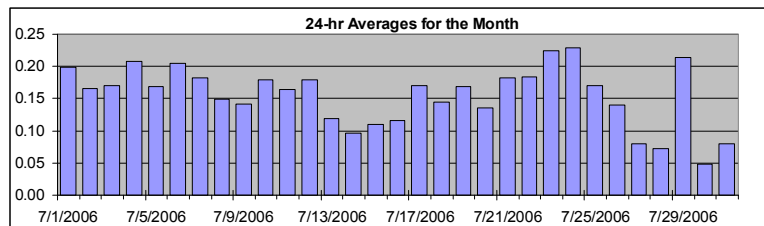
Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 1-hr 13 ppm, 24-hr na ppm

Summary

Number of 1-hr Exceedances:	0		
Maximum 1-hr Average:	0.5 ppm	21-Jul	22:00 23:00
Maximum 24-hr Value:	0.2 ppm	24-Jul	

AIC Time:	34 hrs	Operational Time:	707 hrs
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%
Percentile	99 0.3	95 0.3	75 0.2
	50 0.2	25 0.1	5 0.0
	1 0.0	Average	Median
		0.2 ppm	0.2 ppm



Status Flag Characters

C Calibration	A AIC - Zero / Span Check
S Instrument out of Service	X Filter Exchange
N No Data	M Equipment Maintenance
D Excessive Instrument Drift	P Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			0:00	
1-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.20	0.28
2-Jul-06	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.21
3-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.17	0.26
4-Jul-06	0.2	0.2	0.2	0.2	0.2	0.3	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.21	0.34
5-Jul-06	0.2	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.17	0.20
6-Jul-06	0.2	0.2	0.2	0.2	0.2	A	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.28
7-Jul-06	0.2	0.2	0.1	0.1	A	0.1	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.18	0.27
8-Jul-06	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.15	0.20
9-Jul-06	0.1	0.1	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.5	0.2	0.1	0.2	0.14	0.46	
10-Jul-06	0.2	A	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.18	0.27	
11-Jul-06	A	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.3	0.2	A	0.16	0.32		
12-Jul-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	A	0.2	0.18	0.36	
13-Jul-06	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.12	0.17	
14-Jul-06	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.1	0.10	0.21	
15-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.11	0.21	
16-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.2	0.2	0.2	0.1	0.12	0.18	
17-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.2	0.2	0.3	0.4	0.3	0.3	0.17	0.38	
18-Jul-06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.14	0.16	
19-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.17	0.30	
20-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.14	0.20	
21-Jul-06	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.18	0.47	
22-Jul-06	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	A	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.29	
23-Jul-06	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.23	0.29	
24-Jul-06	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	A	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.23	0.37	
25-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.17	0.31	
26-Jul-06	0.2	0.2	A	0.2	0.2	0.2	C	C	C	A	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.2	0.2	0.14	0.26		
27-Jul-06	0.2	0.2	A	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.18	
28-Jul-06	0.0	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.07	0.15		
29-Jul-06	A	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	A	0.21	0.38		
30-Jul-06	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	A	0.1	0.05	0.15	
31-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	A	0.1	0.1	0.08	0.11		
Hourly Avg	0.16	0.15	0.15	0.15	0.15	0.17	0.19	0.18	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.17	0.21	0.19	0.18	0.16			
Hourly Max	0.29	0.25	0.26	0.25	0.29	0.30	0.34	0.37	0.33	0.25	0.27	0.23	0.23	0.23	0.23	0.23	0.23	0.20	0.21	0.23	0.27	0.27	0.46	0.38	0.47	0.29		

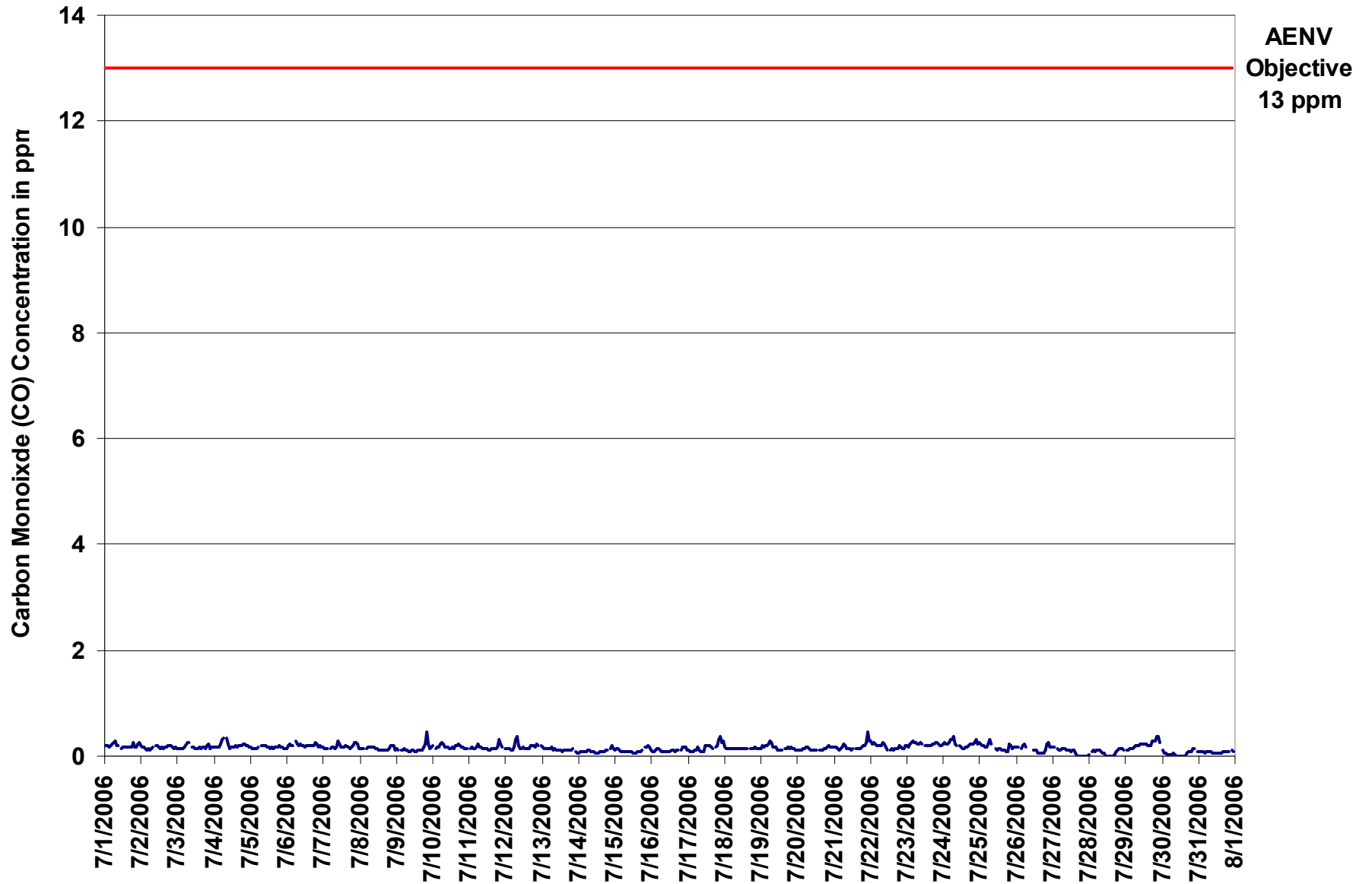


Figure 7. PAS - Crescent Heights Carbon Monoxide 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

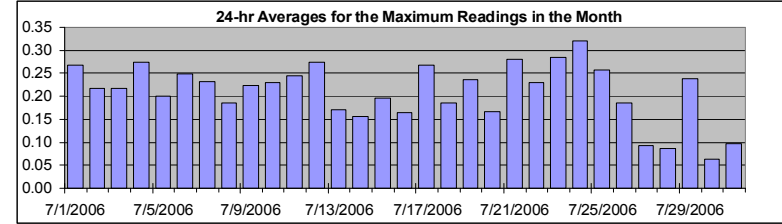
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Carbon Monoxide (CO)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	1.2	ppm	21-Jul	22:00 23:00
Maximum 24-hr Value:	0.3	ppm	24-Jul	



AIC Time:	34 hrs	Operational Time:	707 hrs						
Calibration Time:	3 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	0.6	0.4	0.2	0.2	0.1	0.1	0.0	0.2 ppm	0.2 ppm

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.3	0.3	0.4	0.4	0.27	0.48
2-Jul-06	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.22	0.40
3-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.22	0.33
4-Jul-06	0.2	0.2	0.2	0.2	0.3	0.5	0.4	A	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.27	0.49
5-Jul-06	0.2	0.2	0.2	0.1	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.20	0.30
6-Jul-06	0.2	0.3	0.2	0.2	0.3	A	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.25	0.35
7-Jul-06	0.2	0.2	0.1	0.1	A	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.23	0.44
8-Jul-06	0.1	0.1	0.1	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.1	0.1	0.19	0.31
9-Jul-06	0.2	0.2	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.4	1.0	0.5	0.2	0.2	0.22	1.05
10-Jul-06	0.2	A	0.2	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.23	0.40
11-Jul-06	A	0.2	0.2	0.2	0.1	0.2	0.6	0.2	0.4	0.2	0.1	0.3	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.2	A	0.24	0.65
12-Jul-06	0.1	0.2	0.1	0.1	0.2	0.5	0.7	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.2	A	0.2	0.27	0.74
13-Jul-06	0.2	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	A	0.1	0.1	0.17	0.28
14-Jul-06	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	A	0.3	0.3	0.2	0.16	0.34
15-Jul-06	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.4	0.9	0.2	0.20	0.94
16-Jul-06	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	A	0.2	0.2	0.3	0.2	0.2	0.16	0.29
17-Jul-06	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	A	0.2	0.2	1.1	0.5	0.4	0.3	0.27	1.14
18-Jul-06	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.19	0.29
19-Jul-06	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	A	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.24	0.43
20-Jul-06	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	A	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.17	0.27
21-Jul-06	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	A	0.1	0.1	0.2	0.2	0.6	0.3	0.3	0.3	1.2	0.5	0.28	1.24
22-Jul-06	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	A	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.23	0.35
23-Jul-06	0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	A	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.28	0.40
24-Jul-06	0.2	0.3	0.4	0.2	0.2	0.4	0.4	0.5	0.2	0.2	A	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.8	0.3	0.3	0.4	0.3	0.3	0.32	0.77
25-Jul-06	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.7	0.4	0.2	0.3	0.2	0.26	0.73
26-Jul-06	0.2	0.2	A	0.2	0.3	0.3	0.2	C	C	C	A	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.4	0.4	0.2	0.2	0.18	0.41
27-Jul-06	0.2	0.2	A	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.19
28-Jul-06	0.0	A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.09	0.19	
29-Jul-06	A	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	A	0.24	0.44	
30-Jul-06	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	A	0.1	0.06	0.17
31-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	A	0.1	0.10	0.15
Hourly Avg	0.19	0.19	0.19	0.19	0.19	0.23	0.27	0.24	0.21	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.20	0.28	0.33	0.28	0.29	0.20		
Hourly Max	0.40	0.35	0.44	0.40	0.33	0.49	0.74	0.64	0.40	0.35	0.35	0.30	0.26	0.25	0.32	0.25	0.30	0.37	0.63	0.77	1.14	0.55	1.24	0.50		

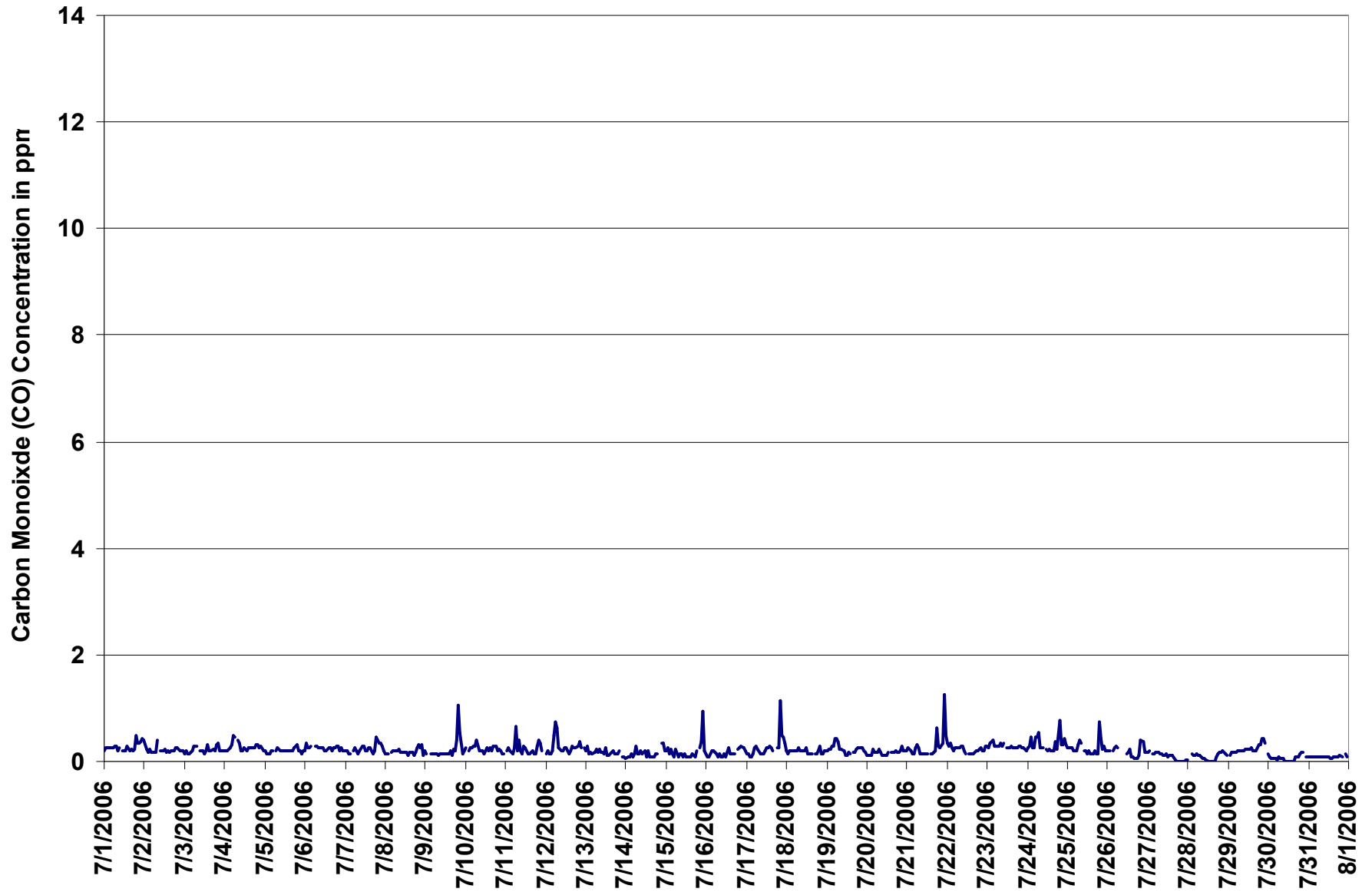
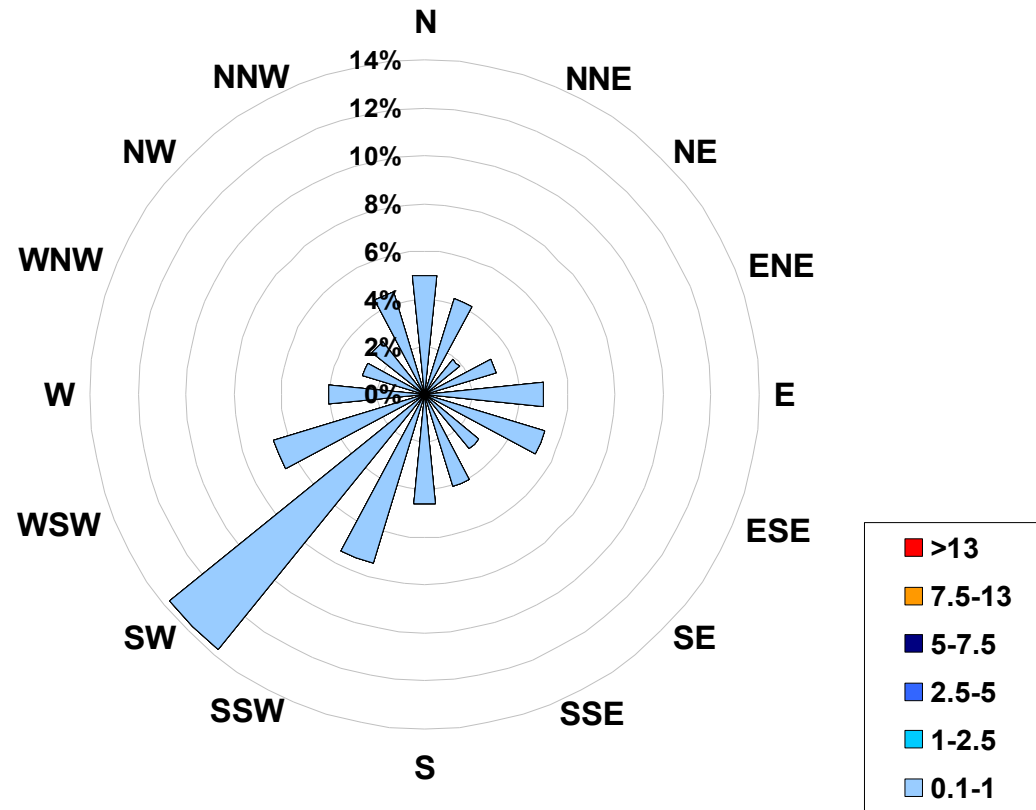


Figure 8. PAS - Crescent Heights Carbon Monoxide Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Carbon Monoxide (in ppm) Located at the Crescent Heights Site for July 2006



Calms: 0%

Frequency Distribution of CO in ppm Range			Frequency (hrs)
0.1	<	1	707
1	to	2.5	0
2.5	to	5	0
5	to	7.5	0
7.5	to	13	0
	>	13	0
Total Non-Zero Values			707



PAS - Crescent Heights - Carbon Monoxide Monthly Summary

Station: Crescent Heights
Station Owner: PAS

EIGHT HOUR RUNNING AVERAGE TABLE

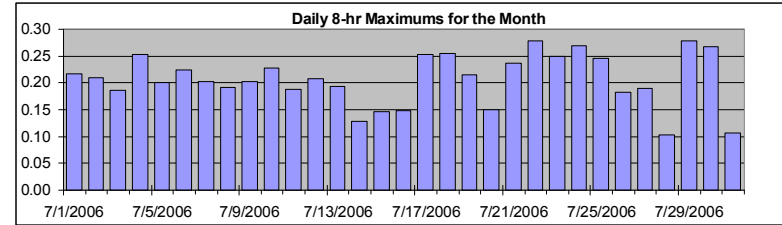
Carbon Monoxide (CO)

Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 8-hr 5 ppm
Summary

Number of 8-hr Exceedances:	0						
Maximum 8-hr Average:	0.3	ppm	22-Jul	3:00	4:00		

Percentile	99	95	75	50	25	5	1
	0.3	0.2	0.2	0.2	0.1	0.1	0.0



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
1-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
2-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
3-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.19
4-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
5-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
6-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.22
7-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20
8-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.19
9-Jul-06	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.20
10-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.23
11-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.19
12-Jul-06	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21
13-Jul-06	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.19
14-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.13
15-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
16-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15
17-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.25
18-Jul-06	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.25
19-Jul-06	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.21
20-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.15
21-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.24
22-Jul-06	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.28
23-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.25
24-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.27
25-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.25
26-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N	N	N	N	N	N	N	N	N	N	N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.18
27-Jul-06	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.19
28-Jul-06	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.10
29-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.28
30-Jul-06	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.27
31-Jul-06	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11
Hourly Max	0.27	0.27	0.28	0.28	0.28	0.27	0.25	0.27	0.27	0.26	0.27	0.26	0.25	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.25	0.27	0.27	0.28		



PAS - Crescent Heights - Total Hydrocarbons Monthly Summary

Station: Crescent Heights
Station Owner: PAS

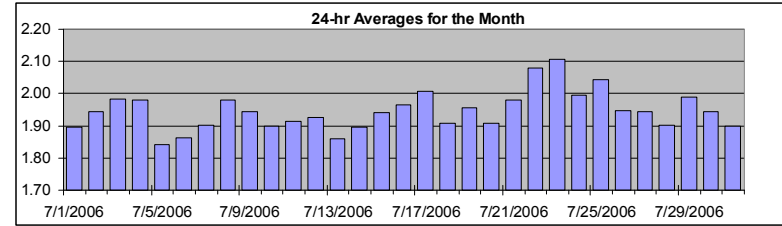
HOURLY AVERAGE TABLE

Total Hydrocarbons (THC)

Monitoring Dates: July 1, 2006 to August 1, 2006

Objective Limit: Alberta Environment: 1-hr na ppm 24-hr na ppm
Summary

Maximum 1-hr Average:	2.8	ppm	22-Jul	3:00 4:00
Maximum 24-hr Value:	2.1	ppm	23-Jul	



AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.4	2.2	2.0	1.9	1.9	1.8	1.8	1.9 ppm	1.9 ppm

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-06	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	A	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	1.9	1.90	2.00	
2-Jul-06	2.0	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.94	2.01	
3-Jul-06	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	A	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	2.0	1.98	2.25	
4-Jul-06	1.9	2.0	2.1	2.1	2.4	2.5	2.2	A	2.0	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.98	2.50	
5-Jul-06	1.9	1.9	1.9	1.9	1.9	1.9	A	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.84	1.93	
6-Jul-06	1.8	1.9	1.9	1.9	2.0	A	1.9	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.86	1.97	
7-Jul-06	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.90	2.00	
8-Jul-06	1.9	1.9	1.9	A	2.0	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	1.9	1.98	2.15	
9-Jul-06	2.0	2.0	A	2.0	2.1	2.2	2.1	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.1	2.2	1.9	2.0	1.94	2.18	
10-Jul-06	2.1	A	1.9	2.0	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.90	2.12	
11-Jul-06	A	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	A	1.91	2.05	
12-Jul-06	2.0	2.0	2.0	1.9	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	A	1.9	1.93	2.10	
13-Jul-06	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	A	1.9	1.86	1.92	
14-Jul-06	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	A	1.9	2.2	2.0	1.90	2.17	
15-Jul-06	2.0	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	2.0	2.0	2.1	1.94	2.07	
16-Jul-06	2.0	1.9	2.0	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	2.0	2.0	2.2	1.97	2.20	
17-Jul-06	2.0	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	2.1	2.1	2.1	2.01	2.23	
18-Jul-06	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	A	1.8	1.8	1.8	1.9	1.9	1.9	2.0	1.91	2.01	
19-Jul-06	2.1	2.2	2.0	2.0	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.96	2.15	
20-Jul-06	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	A	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.91	2.03	
21-Jul-06	2.1	2.1	2.2	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	1.98	2.24	
22-Jul-06	2.3	2.4	2.4	2.8	2.6	2.3	2.2	2.1	2.0	1.9	1.9	A	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.1	2.08	2.81	
23-Jul-06	2.0	2.0	2.1	2.3	2.4	2.7	2.6	2.2	2.2	2.2	2.1	A	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.11	2.74	
24-Jul-06	1.9	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.0	2.0	A	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.9	2.0	2.1	2.2	2.00	2.33	
25-Jul-06	2.3	2.5	2.6	2.3	2.2	2.1	2.1	2.1	1.9	A	1.8	1.8	1.7	1.7	1.6	C	C	C	C	A	2.1	2.0	2.0	2.0	2.04	2.56	
26-Jul-06	2.0	2.0	A	2.0	2.0	2.1	2.0	2.0	1.9	1.9	A	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	2.1	2.0	2.1	1.95	2.09	
27-Jul-06	2.1	1.9	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.94	2.08	
28-Jul-06	2.0	A	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	2.0	1.90	2.00	
29-Jul-06	A	1.9	2.0	2.0	2.0	2.0	2.0	2.2	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.1	2.1	2.1	A	1.99	2.17
30-Jul-06	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	2.0	2.1	A	1.9	1.94	2.06
31-Jul-06	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.9	2.0	A	2.0	1.90	2.05	
Hourly Avg	1.99	2.00	2.03	2.04	2.06	2.07	2.05	2.00	1.95	1.93	1.90	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.94	1.96	1.99	1.99		
Hourly Max	2.34	2.49	2.56	2.81	2.64	2.74	2.61	2.24	2.25	2.19	2.08	2.03	2.06	2.11	2.08	2.00	1.94	1.94	1.94	1.94	1.97	2.12	2.16	2.20	2.24		

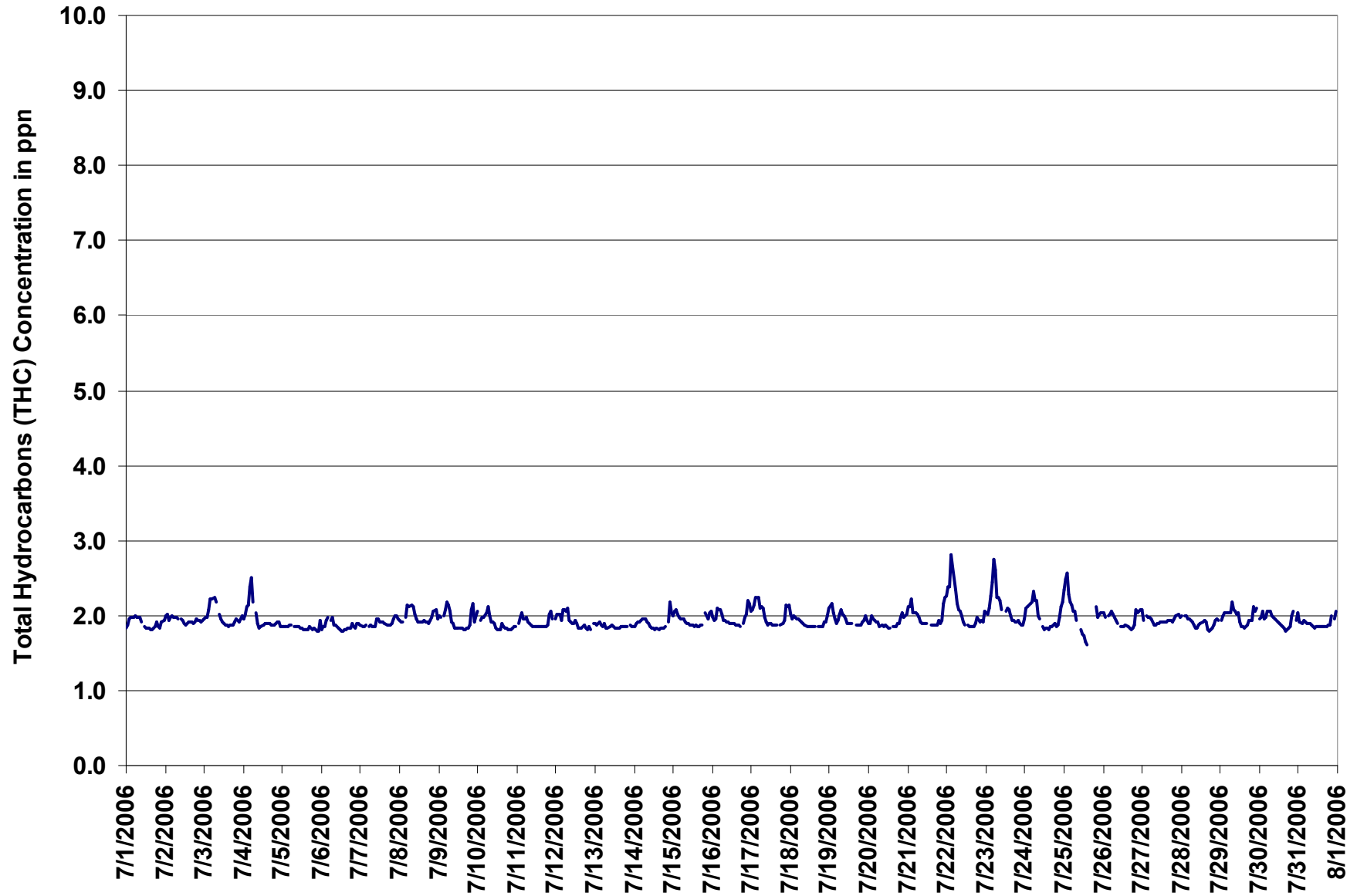


Figure 9. PAS - Crescent Heights Total Hydrocarbons 1-hr Average Monthly Trend



Station: Crescent Heights
Station Owner: PAS

INSTANTANEOUS (30 Second) MAXIMUM TABLE

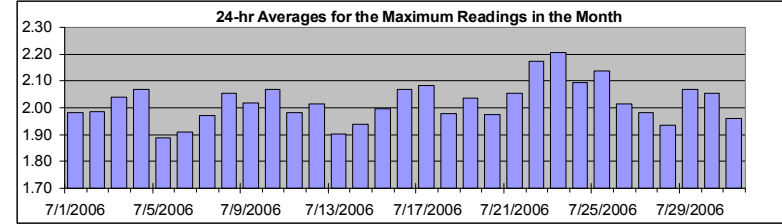
Total Hydrocarbons (THC)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Value:	3.9	ppm	10-Jul	7:00 8:00
Maximum 24-hr Value:	2.2	ppm	23-Jul	

AIC Time:	35 hrs	Operational Time:	705 hrs						
Calibration Time:	4 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	2.7	2.3	2.1	2.0	1.9	1.9	1.8	2.0 ppm	2.0 ppm



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

Day	Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	24-hour Average	Daily Maximum
1-Jul-06			1.9	1.9	2.0	2.6	2.2	2.0	2.1	2.1	2.0	2.0	A	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	2.0	2.0	1.9	2.1	2.0	1.98	2.62	
2-Jul-06			2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.99	2.06
3-Jul-06			2.0	2.0	2.0	2.1	2.4	2.4	2.3	2.3	A	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.04	2.40
4-Jul-06			2.0	2.1	2.2	2.2	2.8	2.7	2.5	A	2.1	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.07	2.76
5-Jul-06			1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.9	1.9	2.0	1.9	1.9	1.9	1.8	1.8	2.1	1.89	2.14	
6-Jul-06			1.9	1.9	1.9	2.0	2.0	A	2.0	2.1	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.91	2.09	
7-Jul-06			1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	2.1	2.1	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.0	1.97	2.18	
8-Jul-06			2.0	1.9	2.0	A	2.1	2.3	2.2	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.9	2.1	2.0	2.3	2.3	2.0	2.05	2.32	
9-Jul-06			2.1	2.0	A	2.0	2.1	2.2	2.3	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	2.0	2.3	2.4	1.9	2.1	2.02	2.44	
10-Jul-06			2.2	A	2.1	2.4	2.1	2.3	2.3	3.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.07	3.92	
11-Jul-06			A	1.9	2.0	2.2	2.0	2.0	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.3	2.0	A	1.98	2.28	
12-Jul-06			2.0	2.1	2.1	2.0	2.3	2.4	2.3	2.3	2.0	1.9	2.0	1.9	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	A	2.0	2.01	2.39	
13-Jul-06			1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.90	1.97	
14-Jul-06			1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.9	A	2.1	2.3	1.94	2.25	
15-Jul-06			2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.3	2.1	2.2	2.1	2.00	2.31	
16-Jul-06			2.0	2.0	2.1	2.3	2.2	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	1.9	2.3	1.9	1.9	2.1	1.9	A	2.0	2.2	2.1	2.4	2.2	2.07	2.38
17-Jul-06			2.2	2.1	2.2	2.3	2.3	2.2	2.2	2.3	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	2.0	1.9	2.1	2.3	2.3	2.2	2.08	2.33	
18-Jul-06			2.1	2.0	2.2	2.2	2.1	2.0	2.0	2.1	2.0	1.9	1.9	1.9	2.1	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.0	2.1	1.98	2.16	
19-Jul-06			2.2	2.3	2.2	2.1	2.0	2.0	2.1	2.2	2.2	2.0	2.0	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.0	2.3	2.1	2.0	2.04	2.29	
20-Jul-06			1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	2.0	2.0	2.1	2.4	2.0	2.1	1.98	2.40	
21-Jul-06			2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.9	A	1.9	1.9	1.9	1.9	2.1	2.1	1.9	2.0	2.3	2.4	2.05	2.38	
22-Jul-06			2.5	2.5	2.6	3.0	2.8	2.4	2.3	2.1	2.1	2.1	1.9	1.9	A	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	2.1	1.9	2.2	2.17	2.98	
23-Jul-06			2.1	2.1	2.2	2.3	2.7	3.0	2.8	2.4	2.4	2.3	2.3	A	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	2.21	3.03	
24-Jul-06			2.1	2.2	2.2	2.3	2.3	2.5	2.3	2.3	2.1	2.0	A	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.4	2.0	2.0	2.2	2.3	2.09	2.47	
25-Jul-06			2.5	2.7	2.6	2.4	2.3	2.2	2.1	2.1	2.1	A	1.9	1.8	1.8	1.7	1.6	C	C	C	C	A	2.2	2.1	2.1	2.1	2.14	2.70	
26-Jul-06			2.1	2.1	A	2.1	2.1	2.1	2.1	2.0	2.0	1.9	A	1.9	1.9	2.0	1.9	1.9	1.9	1.8	1.9	2.0	2.2	2.1	2.1	2.1	2.01	2.23	
27-Jul-06			2.2	2.0	A	2.1	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.0	2.1	2.0	1.98	2.19	
28-Jul-06			2.0	A	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.0	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	1.94	2.05	
29-Jul-06			A	2.0	2.1	2.2	2.1	2.1	2.1	2.3	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.8	1.9	2.0	2.1	2.0	2.2	2.3	2.3	A	2.07	2.31	
30-Jul-06			2.0	2.0	2.2	2.1	2.1	2.2	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9	2.4	2.6	A	2.6	A	2.05	2.65	
31-Jul-06			2.5	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	A	2.0	2.2	1.96	2.53	
Hourly Avg			2.09	2.06	2.11	2.16	2.16	2.17	2.13	2.14	2.01	1.97	1.94	1.91	1.92	1.92	1.89	1.90	1.90	1.90	1.92	1.97	2.06	2.10	2.08	2.07			
Hourly Max			2.54	2.70	2.64	2.98	2.80	3.03	2.79	3.92	2.36	2.25	2.27	2.09	2.16	2.30	2.13	2.06	2.07	2.02	2.10	2.35	2.38	2.65	2.38	2.56			

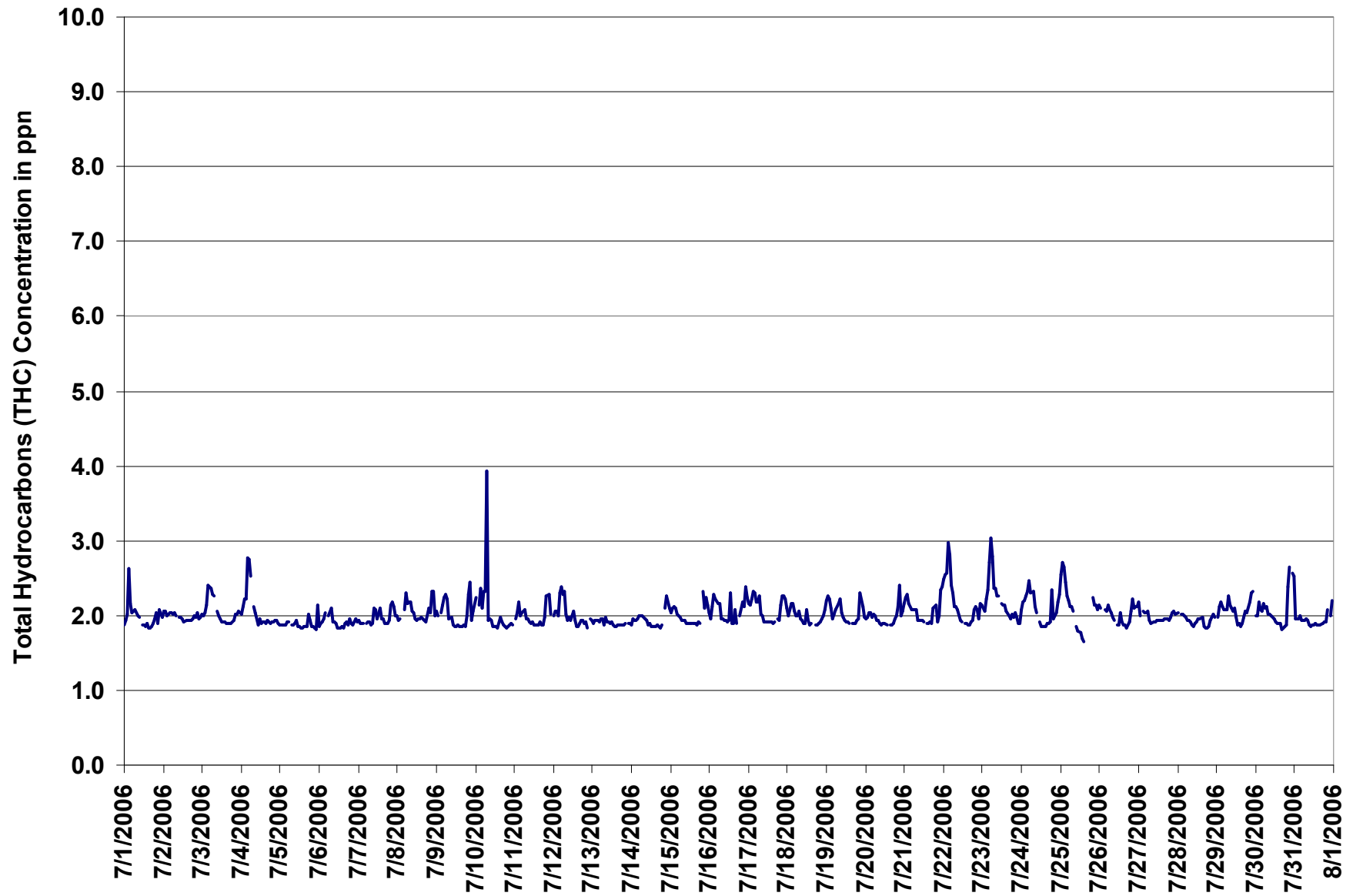
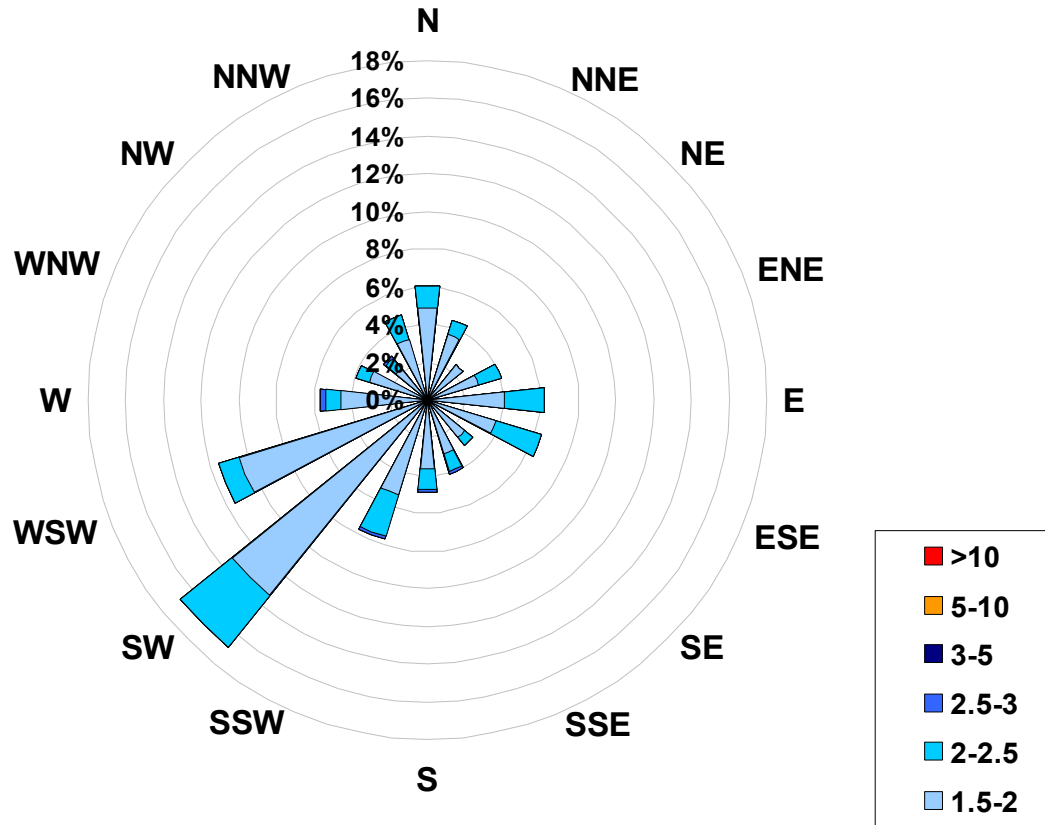


Figure 10. PAS - Crescent Heights Total Hydrocarbons Instantaneous (30 Second) Maximum Value Monthly Trend



**1-hr Average Concentration Rose for Total Hydrocarbons (in ppm)
Located at the Crescent Heights Site for July 2006**



Calms: 0%

Frequency Distribution of THC in ppm			Frequency (hrs)
Range			
1.5	< 2		542
2	to 2.5		157
2.5	to 3		6
3	to 5		0
5	to 10		0
	> 10		0
Total Non-Zero Values			705



PAS - Crescent Heights - Particulate Matter (less than 2.5 microns) Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

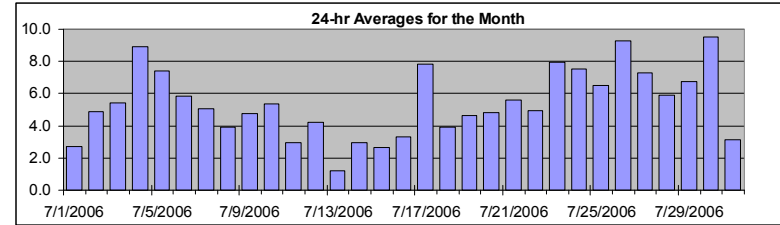
HOURLY AVERAGE TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2006 to August 1, 2006

Draft Objective Limit: Alberta Environment: 1-hr - $\mu\text{g}/\text{m}^3$ 24-hr 30 $\mu\text{g}/\text{m}^3$
Summary

Number of 24-hr Exceedances (draft):	0		
Maximum 1-hr Average:	27.5 $\mu\text{g}/\text{m}^3$	7-Jul	10:00 11:00
Maximum 24-hr Value:	9.5 $\mu\text{g}/\text{m}^3$	30-Jul	



AIC Time:	0 hrs		Operational Time:	714 hrs		
Calibration Time:	2 hrs		AMD Operational Uptime:	96.2%		
Percentile	99	95	75	50	25	
	19.5	14.0	7.7	4.6	2.1	
			5	1	Average / Median	
			0.0	0.0	5.4	5 $\mu\text{g}/\text{m}^3$
					4.9 $\mu\text{g}/\text{m}^3$	Geomean

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
	Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00			23:00
1-Jul-06	0	3	4	1	4	5	7	4	2	1	0	0	0	3	4	2	0	0	1	8	2	0	6	9	2.7	9.2	
2-Jul-06	3	3	2	3	2	3	4	3	7	5	6	6	D	0	10	6	6	6	6	13	10	6	1	3	3	4.9	13.2
3-Jul-06	5	4	4	5	5	5	7	8	4	6	0	4	6	8	7	6	2	5	5	5	10	4	12	5	5.4	12.0	
4-Jul-06	6	8	17	10	5	8	8	15	13	2	0	3	2	6	8	9	11	14	16	13	12	8	12	8	8.9	17.4	
5-Jul-06	6	5	5	5	8	11	12	11	10	10	5	2	4	7	6	3	7	2	9	D	14	11	D	9	7.4	14.2	
6-Jul-06	12	5	1	7	4	5	8	4	10	3	0	6	0	10	D	3	D	7	6	14	D	8	7	2	5.9	14.5	
7-Jul-06	0	0	0	2	3	2	5	1	1	6	28	5	0	5	6	6	1	D	9	7	11	8	6	4	5.0	27.5	
8-Jul-06	1	1	0	3	8	9	6	7	6	4	2	2	1	1	3	1	1	1	2	7	9	13	7	1	3.9	13.2	
9-Jul-06	5	5	6	8	8	6	7	7	7	0	D	3	0	0	0	0	0	6	5	7	10	3	6	12	4.8	11.6	
10-Jul-06	7	6	3	5	6	7	11	9	6	7	4	D	2	0	1	22	13	0	D	D	4	0	0	1	5.4	22.3	
11-Jul-06	1	2	0	0	0	7	7	4	7	2	0	D	0	D	2	5	0	1	3	1	12	7	4	0	3.0	11.8	
12-Jul-06	0	3	D	0	9	0	10	9	3	4	1	7	D	0	0	2	5	0	20	0	11	0	3	5	4.2	19.8	
13-Jul-06	0	D	0	2	0	2	2	D	1	D	0	0	1	3	1	2	0	1	3	6	1	0	1	1	1.2	5.7	
14-Jul-06	2	5	2	3	1	4	5	4	4	0	0	D	0	1	0	0	0	1	6	3	1	7	15	4	3.0	15.0	
15-Jul-06	1	2	1	2	1	2	3	5	5	D	0	0	0	0	0	2	2	1	4	5	0	11	10	4	2.7	10.8	
16-Jul-06	0	0	7	12	8	10	5	3	1	1	0	0	1	1	2	2	1	1	1	2	5	4	8	3	3.3	12.4	
17-Jul-06	5	3	3	3	3	3	5	6	7	1	0	20	17	18	17	7	0	2	7	9	10	24	11	8	7.8	24.2	
18-Jul-06	D	0	10	9	6	9	6	7	5	2	3	2	4	1	0	2	3	4	2	5	2	3	1	4	3.9	9.9	
19-Jul-06	6	14	13	6	4	7	3	3	4	4	D	D	1	3	3	2	5	2	5	2	7	7	1	0	4.6	14.5	
20-Jul-06	2	2	1	8	23	13	6	9	0	0	1	0	3	5	3	4	2	3	2	6	7	5	6	6	4.8	22.6	
21-Jul-06	7	8	6	2	4	6	7	7	9	5	0	0	4	4	3	5	5	3	5	9	1	8	18	7	5.6	18.1	
22-Jul-06	12	5	4	1	1	6	5	10	11	D	2	0	3	4	1	3	3	6	4	8	6	4	5	9	4.9	11.9	
23-Jul-06	1	6	11	19	14	9	11	3	4	10	10	15	0	9	5	4	5	9	14	3	3	15	5	7	8.0	19.0	
24-Jul-06	9	7	3	9	12	14	14	14	9	4	0	11	D	0	4	4	12	12	16	0	3	2	7	6	7.5	15.8	
25-Jul-06	14	12	7	5	4	7	9	13	8	7	1	D	6	5	D	1	0	3	4	9	10	6	5	8	6.5	13.9	
26-Jul-06	14	13	6	0	2	3	14	15	C	C	11	7	10	11	8	8	7	6	8	9	12	11	20	10	9.3	19.6	
27-Jul-06	8	7	11	17	12	10	11	12	10	7	6	6	6	5	7	7	8	7	5	3	2	2	3	3	7.3	16.7	
28-Jul-06	3	3	2	3	4	5	6	7	5	5	6	7	7	9	9	5	1	4	10	10	14	8	5	4	5.9	14.1	
29-Jul-06	4	4	3	4	5	3	5	4	7	11	9	8	3	5	D	2	4	5	13	14	17	11	11	4	6.7	17.3	
30-Jul-06	4	5	7	2	14	19	14	13	11	11	7	4	3	5	13	21	18	10	6	8	18	9	3	3	9.5	20.7	
31-Jul-06	2	2	2	2	5	10	12	8	4	3	0	0	0	0	1	1	1	1	2	1	2	4	6	6	3.1	12.0	
Hourly Avg	4.7	4.7	4.7	5.1	6.0	6.7	7.6	7.5	6.0	4.5	3.4	4.6	3.0	4.4	4.4	4.7	4.1	4.1	6.8	6.3	7.5	6.6	6.8	5.0			
Hourly Max	13.9	14.5	17.4	19.0	22.6	19.0	14.4	14.9	13.1	11.2	27.5	20.1	17.3	18.5	17.2	22.3	17.6	14.1	19.8	14.5	18.5	24.2	19.6	11.6			

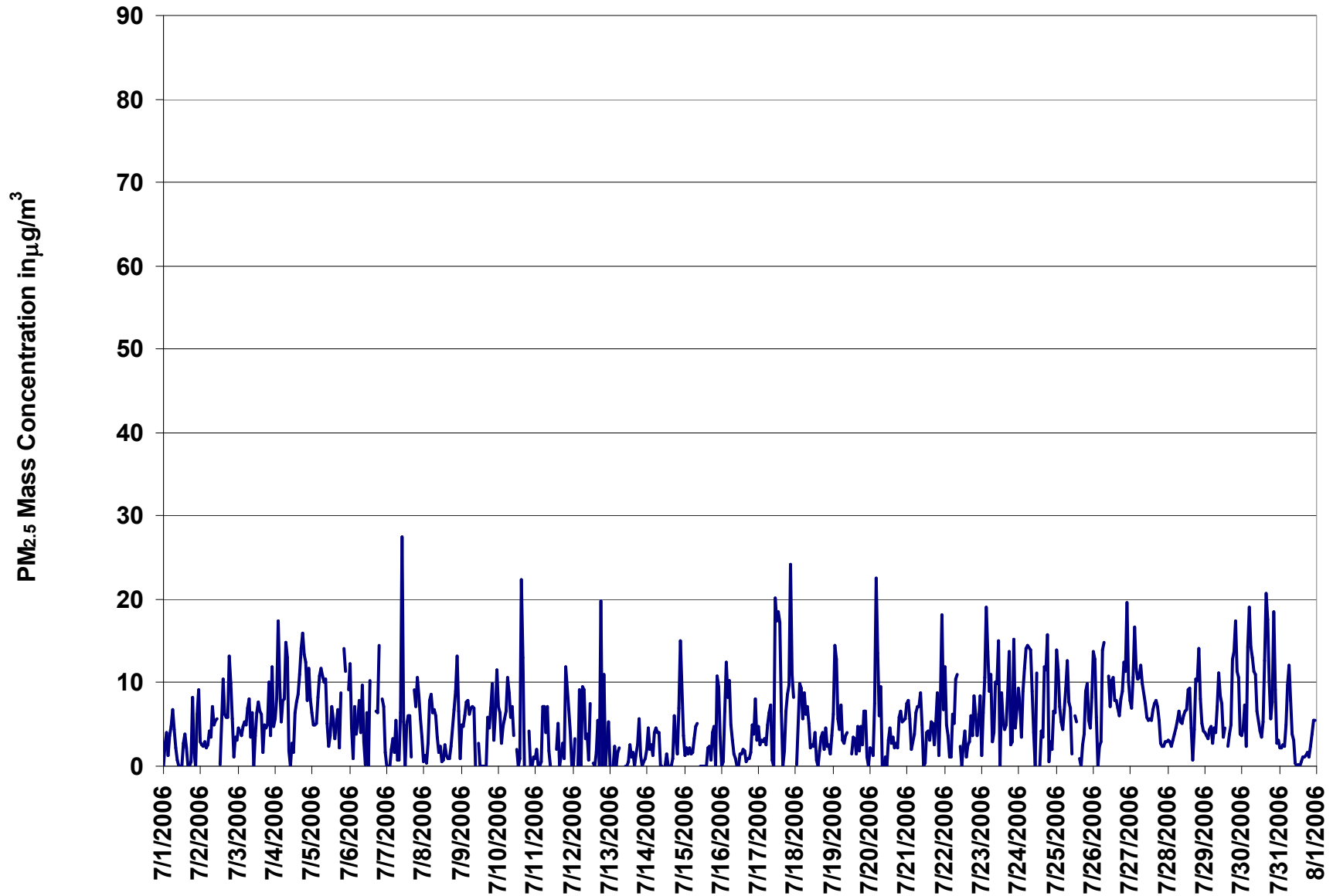


Figure 11. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) 1-hr Average Monthly Trend



Station: Crescent Heights
 Station Owner: PAS

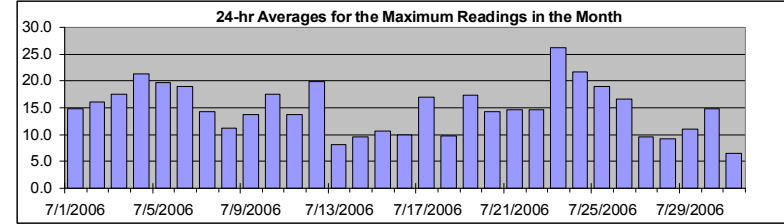
INSTANTANEOUS (30 Second) MAXIMUM TABLE

Particulate Matter (PM_{2.5})

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	78.8	µg/m ³	12-Jul	18:00 19:00
Maximum 24-hr Value:	26.2	µg/m ³	23-Jul	



AIC Time:	0 hrs	Operational Time:	714 hrs						
Calibration Time:	2 hrs	AMD Operational Uptime:	96.2%						
Percentile	99	95	75	50	25	5	1	Average / Median	Geomean
	46.6	34.1	18.3	12.6	8.7	4.6	2.5	14.8	13 µg/m ³
									14.1 µg/m ³

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum
Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1-Jul-06	6	7	15	14	11	14	18	17	14	17	11	15	15	18	20	26	10	8	12	17	17	12	24	17	14.8	26.0
2-Jul-06	8	23	6	5	5	8	10	17	16	16	22	12	D	35	38	15	22	23	24	17	14	7	10	18	16.2	38.3
3-Jul-06	9	8	8	17	9	11	13	28	36	35	14	20	17	22	24	24	11	17	19	19	19	10	18	13	17.5	36.1
4-Jul-06	10	13	45	22	13	17	18	41	27	25	10	19	20	26	24	20	21	26	28	23	18	13	16	15	21.2	44.8
5-Jul-06	9	7	7	9	12	15	18	20	17	22	17	19	22	21	22	12	22	25	34	D	47	27	D	30	19.8	46.9
6-Jul-06	22	13	14	22	10	12	13	15	23	15	13	20	17	30	D	25	D	20	22	37	D	28	19	6	18.9	37.4
7-Jul-06	5	2	1	11	10	5	11	11	10	26	41	24	10	17	19	17	10	D	26	13	19	13	17	11	14.3	41.1
8-Jul-06	4	5	3	6	11	10	9	12	14	12	15	15	8	10	10	8	9	9	7	16	15	33	21	6	11.2	33.4
9-Jul-06	14	8	13	9	17	12	14	15	17	8	D	13	7	11	8	11	12	13	16	15	31	17	16	16	13.7	31.0
10-Jul-06	12	30	7	8	13	13	16	15	17	19	17	D	11	11	26	69	31	21	D	D	12	8	6	5	17.5	69.1
11-Jul-06	4	5	4	1	3	15	11	16	23	18	22	D	15	D	11	17	13	15	19	18	39	20	10	2	13.6	39.2
12-Jul-06	4	9	D	6	34	11	27	22	24	12	15	22	D	9	16	12	14	10	79	28	28	13	13	28	19.9	78.8
13-Jul-06	6	D	3	14	0	4	7	D	9	D	4	9	10	13	12	10	9	9	9	13	6	11	5	5	8.1	14.4
14-Jul-06	4	9	5	8	5	7	8	9	8	10	6	D	7	12	5	5	5	8	11	10	6	37	25	11	9.6	37.4
15-Jul-06	6	18	12	4	4	3	10	11	13	D	9	14	8	8	12	13	9	10	11	12	6	24	16	14	10.7	24.0
16-Jul-06	8	7	16	17	12	13	11	9	6	7	8	8	8	9	8	7	7	7	5	7	12	9	27	13	9.9	27.2
17-Jul-06	9	8	7	7	8	9	10	14	12	8	3	29	36	28	37	18	15	10	15	17	19	36	24	27	16.9	36.7
18-Jul-06	D	2	19	13	13	14	9	11	12	13	10	11	17	6	6	10	13	11	6	7	5	5	6	6	9.8	18.9
19-Jul-06	15	38	22	14	18	28	19	20	15	15	D	D	12	10	19	14	20	10	21	12	11	36	7	6	17.3	38.5
20-Jul-06	5	5	5	19	47	34	16	19	11	7	12	10	11	11	15	12	13	12	11	20	14	14	10	11	14.3	47.3
21-Jul-06	16	18	11	5	6	11	13	16	18	14	9	11	14	13	9	11	14	13	15	24	9	16	36	27	14.5	36.3
22-Jul-06	31	14	11	11	5	16	11	24	25	D	16	15	17	13	11	13	11	17	11	20	12	9	10	16	14.7	30.7
23-Jul-06	8	10	17	41	27	20	47	27	27	26	44	50	15	30	25	24	25	22	36	37	10	41	9	14	26.2	50.3
24-Jul-06	15	14	14	20	19	17	24	20	20	27	13	48	D	30	23	13	34	41	63	4	10	6	13	12	21.7	62.7
25-Jul-06	38	23	14	10	9	10	16	26	34	13	16	D	28	21	D	28	8	19	18	24	21	11	12	18	19.0	38.5
26-Jul-06	39	40	29	9	6	7	21	22	C	C	14	10	15	17	9	11	10	9	11	12	17	15	29	14	16.5	39.7
27-Jul-06	11	9	14	20	15	13	13	16	12	9	8	8	8	8	9	9	11	9	7	5	4	3	5	4	9.6	20.2
28-Jul-06	6	5	5	6	5	6	8	11	9	7	8	8	9	11	12	10	6	10	24	15	17	10	7	6	9.2	24.0
29-Jul-06	5	7	5	7	8	6	7	7	10	15	11	10	7	10	D	11	7	8	26	24	23	14	15	11	11.0	26.2
30-Jul-06	8	10	11	6	24	22	18	15	15	14	12	9	8	9	20	27	26	19	9	15	32	15	6	7	14.8	31.6
31-Jul-06	5	5	5	5	9	16	15	13	8	7	3	1	2	3	3	4	3	3	4	5	6	10	9	9	6.4	15.6
Hourly Avg	11.5	12.4	11.6	11.8	12.5	12.8	14.9	17.3	16.7	15.4	14.0	16.6	13.4	15.8	16.2	16.3	14.0	14.4	20.0	16.8	16.5	16.9	14.7	12.7		
Hourly Max	38.9	39.7	44.8	41.1	47.3	34.0	46.8	40.6	36.1	34.9	44.1	50.3	35.7	35.5	38.3	69.1	34.0	40.8	78.8	37.4	46.9	40.8	36.3	29.8		

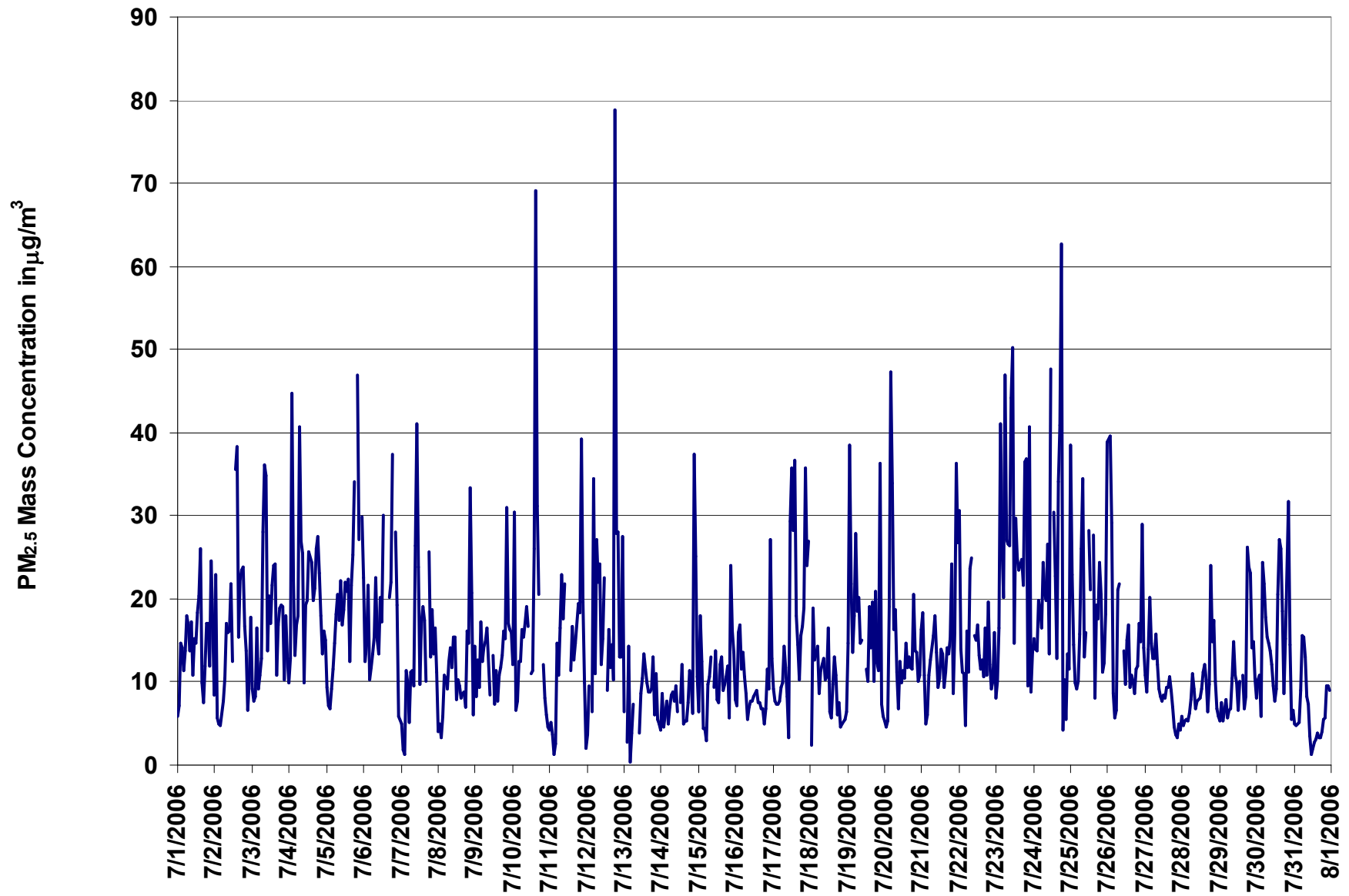
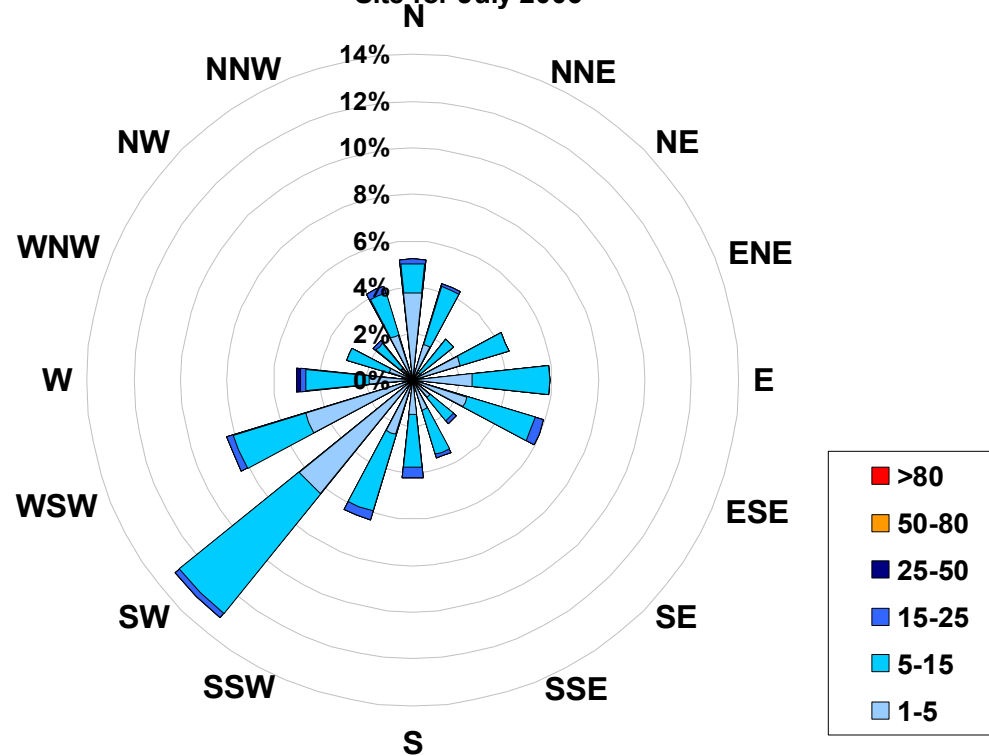


Figure 12. PAS - Crescent Heights Particulate Matter (less than 2.5 microns) Instantaneous (30 Second) Maximum Value Monthly Trend



1-hr Average Concentration Rose for Particulate Matter (less than 2.5 microns) (in micrograms per cubic meter) Located at the Crescent Heights Site for July 2006



Calms: 0%

Frequency Distribution of PM _{2.5} in $\mu\text{g}/\text{m}^3$			
Range			Frequency (hrs)
1.0	<	5	383
5	to	15	307
15	to	25	23
25	to	50	1
50	to	80	0
	>	80	0
Total Non-Zero Values			714



PAS - Crescent Heights - Relative Humidity Monthly Summary

Station: Crescent Heights
Station Owner: PAS

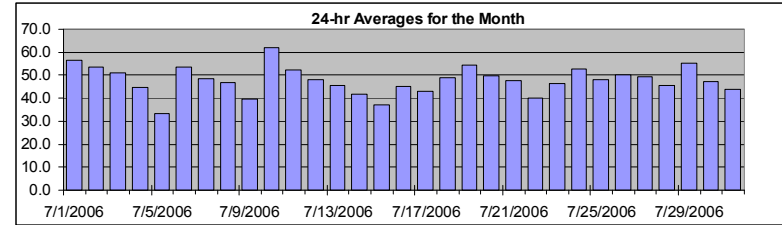
HOURLY AVERAGE TABLE

Relative Humidity (RH)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	87.6 %	1-Jul	4:00 5:00
Maximum 24-hr Value:	62.0 %	10-Jul	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	84.3	77.8	62.9	46.3	32.4	21.3	15.8	47.8 %	46.3 %

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-06	80	84	85	86	88	87	85	72	65	53	46	42	39	36	37	37	35	31	31	41	46	45	46	56	56.4	87.6	
2-Jul-06	61	62	69	77	79	72	73	68	61	56	55	48	39	28	31	31	30	32	41	46	54	56	59	62	53.8	79.5	
3-Jul-06	71	74	74	78	82	79	70	62	53	47	39	34	33	35	33	31	29	28	28	34	41	46	58	65	51.0	81.6	
4-Jul-06	60	65	69	74	79	74	64	58	53	46	38	32	27	22	20	17	17	19	25	34	42	47	48	43	44.6	78.5	
5-Jul-06	40	38	38	37	39	40	39	38	37	35	33	27	25	24	24	25	26	26	27	30	29	45	37	43	33.5	45.3	
6-Jul-06	58	66	65	71	70	69	68	69	67	65	54	47	41	41	37	33	31	32	34	41	45	49	62	65	53.4	71.0	
7-Jul-06	63	62	63	65	68	66	65	56	47	43	49	43	36	33	34	35	32	22	31	35	44	51	58	61	48.4	67.5	
8-Jul-06	62	65	60	58	63	68	65	62	56	49	41	38	35	31	30	29	28	28	29	32	38	45	55	52	46.6	68.5	
9-Jul-06	53	60	63	68	70	64	55	50	43	36	26	23	20	19	17	17	16	18	22	28	38	37	47	58	39.5	70.2	
10-Jul-06	66	65	65	70	74	72	68	62	57	54	49	38	38	34	31	50	74	84	77	70	71	76	69	75	62.0	84.1	
11-Jul-06	76	78	80	82	78	74	70	65	61	57	48	39	35	30	28	29	27	25	26	28	40	53	60	65	52.3	82.4	
12-Jul-06	62	64	60	54	59	56	54	49	39	36	31	35	29	25	23	23	28	30	56	57	70	73	71	76	48.2	76.0	
13-Jul-06	75	71	70	75	72	70	65	52	45	36	33	29	28	29	29	30	28	28	29	35	40	38	44	43	45.6	75.0	
14-Jul-06	42	52	62	62	62	66	64	57	50	41	35	28	25	24	23	22	21	22	26	30	34	36	56	61	41.7	66.1	
15-Jul-06	60	62	65	65	65	62	55	47	43	33	26	23	18	16	14	14	15	14	17	22	25	33	45	51	37.2	65.4	
16-Jul-06	50	44	46	65	73	73	67	58	51	47	43	37	35	34	32	32	30	29	28	30	35	39	49	53	45.1	72.8	
17-Jul-06	61	65	68	73	75	67	59	52	46	37	29	28	24	22	23	22	17	15	18	24	34	47	58	63	42.8	75.3	
18-Jul-06	54	48	56	66	68	74	72	67	57	51	45	44	41	36	33	30	30	32	33	38	44	49	51	53	48.8	73.7	
19-Jul-06	58	65	82	84	83	85	81	77	69	60	50	40	34	34	32	31	32	34	37	35	41	48	55	52	54.3	85.5	
20-Jul-06	52	51	48	48	62	73	78	76	63	50	43	37	34	35	36	36	35	34	35	38	47	52	61	65	49.6	77.9	
21-Jul-06	71	73	76	74	75	71	63	58	52	46	36	31	29	27	26	26	27	27	28	35	37	43	54	61	47.7	75.9	
22-Jul-06	65	70	71	74	74	68	59	50	44	33	25	21	19	19	18	17	18	20	21	25	30	34	39	47	40.2	74.1	
23-Jul-06	51	50	52	61	67	68	62	55	49	48	46	42	35	33	31	31	31	32	33	40	38	49	52	54	46.3	68.4	
24-Jul-06	61	67	72	75	79	78	72	66	59	49	36	44	39	32	28	28	32	35	46	46	49	52	57	61	52.6	78.9	
25-Jul-06	68	77	80	81	81	77	70	62	52	47	43	33	29	29	25	23	23	24	26	31	37	41	45	48	48.0	81.3	
26-Jul-06	54	65	73	83	85	84	79	71	64	54	43	31	29	29	28	28	27	24	25	30	40	43	55	58	50.1	85.0	
27-Jul-06	56	52	50	60	69	70	69	69	64	57	50	45	43	39	37	35	34	35	37	37	39	42	44	46	49.1	70.4	
28-Jul-06	50	52	54	57	59	61	58	54	50	43	37	35	33	29	28	27	23	21	27	45	56	64	67	69	45.7	68.7	
29-Jul-06	69	72	76	79	83	84	75	69	62	59	54	51	41	35	23	19	24	26	32	47	61	64	65	51	55.1	83.7	
30-Jul-06	37	39	47	43	59	83	83	78	67	60	54	46	40	32	27	27	20	15	15	16	47	62	64	69	47.1	83.1	
31-Jul-06	72	77	78	72	71	70	51	52	48	44	36	28	25	23	21	21	21	21	21	22	27	33	38	47	53	43.7	77.8
Hourly Avg	59.9	62.4	65.0	68.3	71.3	71.2	66.4	60.7	54.0	47.5	41.1	36.0	32.2	29.6	27.7	27.5	27.8	28.0	31.0	35.7	42.8	48.3	54.1	57.4			
Hourly Max	80.2	83.9	85.1	85.9	87.6	87.4	84.8	77.6	68.6	65.2	55.2	51.2	42.7	40.6	37.4	49.8	74.5	84.1	77.2	70.0	71.5	76.0	71.0	76.0			

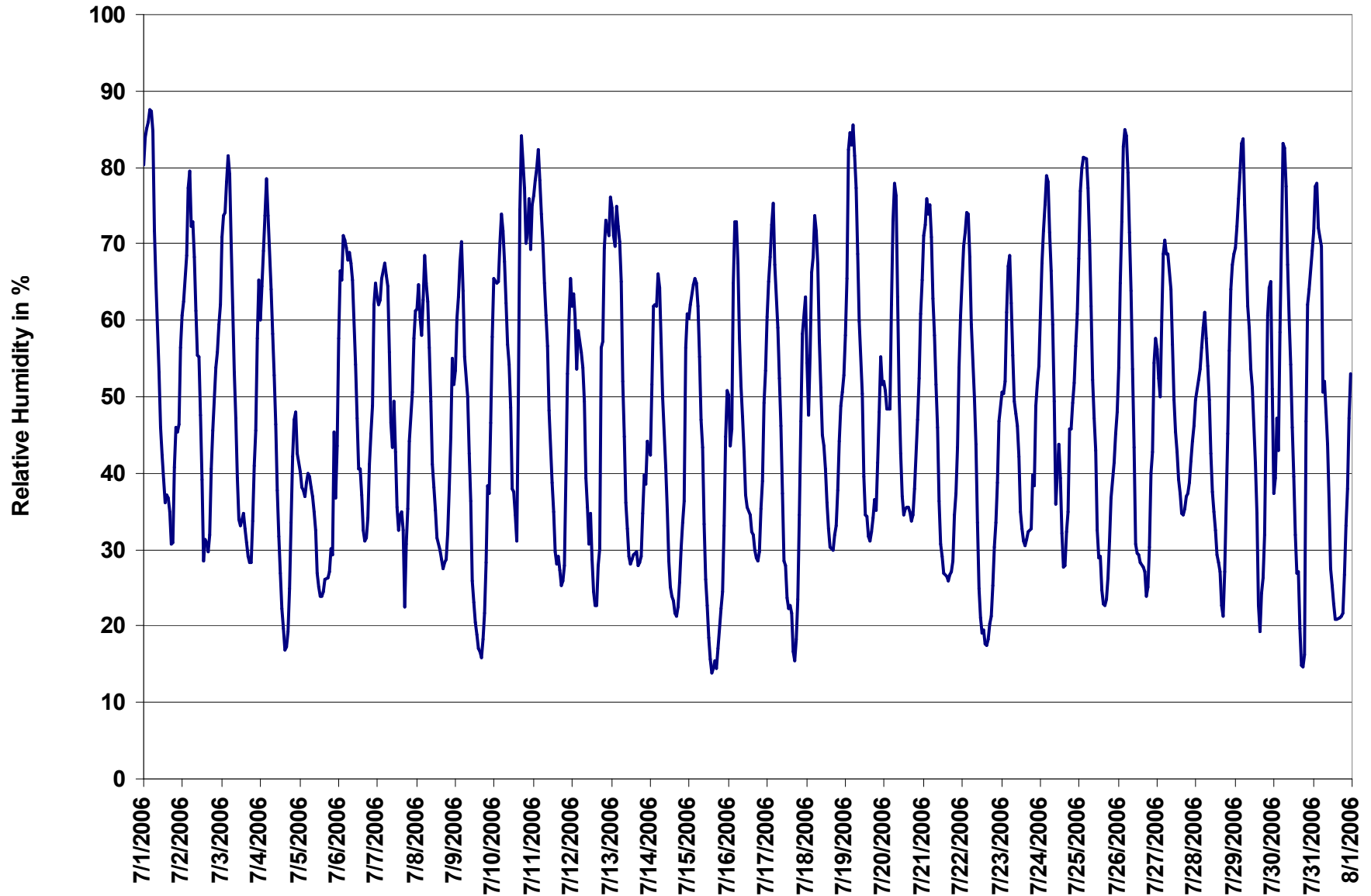


Figure 13. PAS - Crescent Heights Relative Humidity 1-hr Average Monthly Trend



PAS - Crescent Heights - Temperature Monthly Summary

Station: Crescent Heights
Station Owner: PAS

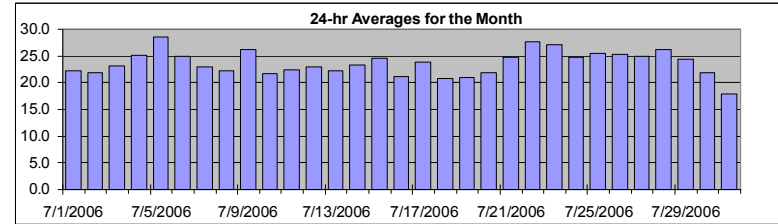
HOURLY AVERAGE TABLE

Ambient Temperature (T)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	36.7 °C	22-Jul	14:00 15:00
Maximum 24-hr Value:	28.6 °C	5-Jul	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	35.2	33.3	28.4	23.6	18.5	14.8	12.0	23.7 °C	23.6 °C

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																								24-hour Average	Daily Maximum	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-06	16	15	15	15	15	15	16	19	20	24	25	26	27	28	28	29	29	29	28	26	23	22	22	20	22.2	29.2	
2-Jul-06	18	17	16	14	14	16	16	18	20	23	24	26	26	29	30	29	30	28	27	25	23	21	19	18	21.9	29.8	
3-Jul-06	16	15	15	14	14	14	17	20	22	25	27	29	30	29	30	31	31	30	30	28	25	23	20	18	23.1	31.0	
4-Jul-06	18	18	17	16	16	17	20	22	26	28	29	31	32	32	33	33	32	32	31	28	25	22	21	24	25.1	32.8	
5-Jul-06	24	24	24	23	22	23	25	26	28	30	31	33	34	34	35	34	34	33	33	29	29	25	26	25	28.6	34.7	
6-Jul-06	22	21	21	20	20	20	21	21	22	23	26	28	30	31	31	32	32	31	31	29	26	23	21	19	25.0	32.2	
7-Jul-06	19	19	19	18	18	18	18	21	23	25	26	26	26	28	27	28	28	28	28	26	23	21	19	18	22.9	28.5	
8-Jul-06	17	16	16	16	16	15	17	19	21	23	25	25	25	27	28	28	29	29	28	28	26	24	23	19	19	22.2	29.0
9-Jul-06	18	16	16	15	14	16	19	22	25	28	31	32	34	35	35	36	36	35	34	31	28	26	24	21	26.1	35.5	
10-Jul-06	20	20	20	18	18	18	20	22	24	25	28	30	30	30	31	25	18	17	18	19	18	17	17	16	21.6	30.5	
11-Jul-06	16	15	15	13	14	15	17	19	21	23	25	27	28	29	29	30	30	30	30	29	25	21	19	17	22.4	30.4	
12-Jul-06	16	16	16	16	16	17	19	22	26	27	30	28	30	32	32	32	30	29	22	21	19	18	19	18	23.0	32.2	
13-Jul-06	18	18	17	15	15	16	17	20	22	24	25	27	27	28	28	28	27	27	27	25	23	22	20	19	22.3	28.1	
14-Jul-06	20	17	15	15	15	14	16	18	21	24	26	28	29	30	31	31	31	30	30	28	26	25	20	19	23.3	31.1	
15-Jul-06	18	17	16	15	15	15	18	21	23	26	29	30	31	32	32	33	33	32	32	30	27	24	21	19	24.5	33.1	
16-Jul-06	18	18	18	15	14	15	17	19	21	22	23	24	25	26	27	26	27	26	26	24	22	21	18	16	21.1	26.6	
17-Jul-06	15	13	12	11	11	12	15	18	22	26	29	31	32	33	33	34	34	34	33	31	27	25	22	20	23.9	34.1	
18-Jul-06	19	19	17	16	16	15	16	17	20	22	23	24	24	25	26	27	26	25	25	23	21	19	18	17	20.9	26.6	
19-Jul-06	16	16	15	15	15	15	16	16	18	21	23	25	26	27	27	27	27	26	25	25	23	21	18	18	20.9	27.2	
20-Jul-06	18	18	18	19	17	16	15	17	19	22	24	26	27	26	27	27	27	27	27	26	23	21	19	17	21.8	27.4	
21-Jul-06	16	15	15	15	15	16	19	21	24	26	29	30	31	33	32	33	33	32	32	30	27	25	23	21	24.7	32.9	
22-Jul-06	19	18	17	16	16	17	20	23	27	31	33	34	36	36	37	36	36	35	35	33	30	29	27	24	27.7	36.7	
23-Jul-06	22	22	22	21	21	21	22	23	25	26	27	29	32	34	34	34	33	33	33	31	29	26	25	25	27.1	34.4	
24-Jul-06	23	21	20	18	17	18	20	22	25	28	30	27	27	31	33	33	32	31	28	26	24	22	21	20	24.8	32.7	
25-Jul-06	18	17	16	15	15	16	18	21	25	26	28	31	32	33	34	34	33	33	32	30	28	26	25	25	25.4	34.0	
26-Jul-06	23	22	20	17	16	16	17	20	22	25	28	30	31	32	32	33	33	33	32	30	27	25	22	21	25.3	32.7	
27-Jul-06	21	21	22	20	19	19	20	21	23	24	26	27	28	30	30	31	31	31	30	28	26	24	23	22	24.9	31.3	
28-Jul-06	21	21	20	20	19	19	21	22	24	27	30	31	32	33	34	34	34	35	33	28	25	23	21	21	26.2	34.8	
29-Jul-06	20	19	18	17	16	15	18	20	22	24	26	27	30	32	33	35	34	32	31	27	24	23	22	23	24.5	34.5	
30-Jul-06	23	22	20	19	18	16	17	19	22	24	24	25	27	27	28	28	28	27	26	24	18	15	14	13	21.8	28.4	
31-Jul-06	12	11	10	10	10	10	13	15	18	19	21	22	23	24	25	25	25	25	25	23	20	18	14	12	17.9	25.3	
Hourly Avg	18.7	18.0	17.3	16.4	15.9	16.3	18.1	20.2	22.6	24.9	26.8	28.0	29.2	30.2	30.7	30.9	30.4	29.9	29.0	27.0	24.5	22.5	20.6	19.5			
Hourly Max	24.1	24.2	23.9	23.4	22.4	22.8	24.8	26.5	28.4	30.8	33.1	34.4	35.6	36.0	36.7	36.3	35.9	35.1	34.7	32.8	30.5	28.8	26.6	24.6			

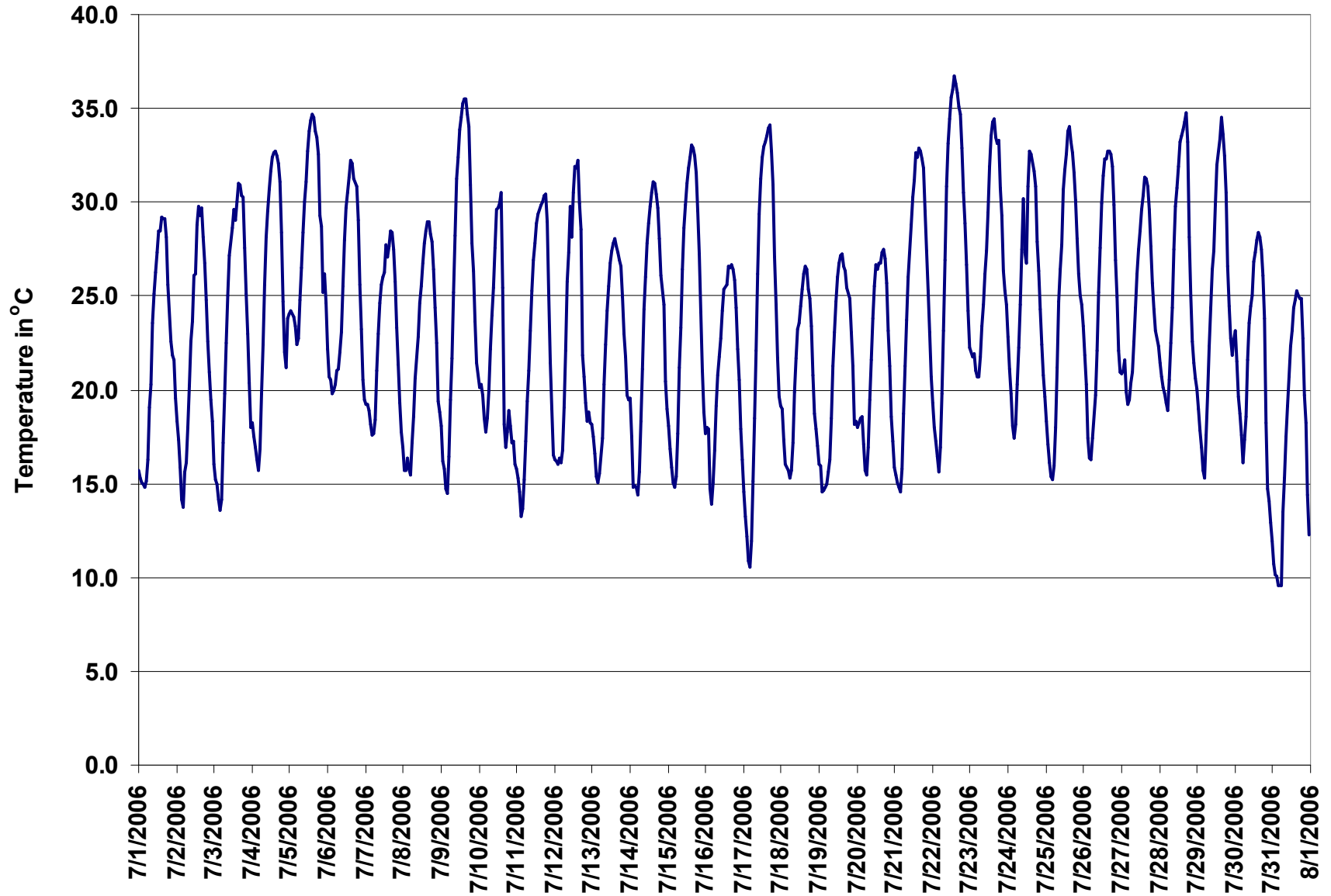


Figure 14. PAS - Crescent Heights Temperature 1-hr Average Monthly Trend



PAS - Crescent Heights - Solar Radiation Monthly Summary

Station: Crescent Heights
Station Owner: PAS

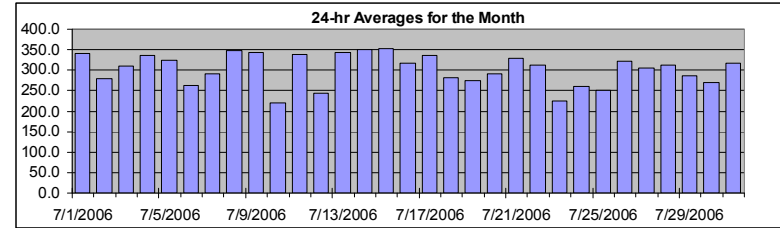
HOURLY AVERAGE TABLE

Solar Radiation (SR)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	923.4	W/m ²	15-Jul	12:00 13:00
Maximum 24-hr Value:	353.5	W/m ²	15-Jul	



AIC Time:	0 hrs	Operational Time:	744 hrs						
Calibration Time:	0 hrs	AMD Operational Uptime:	100.0%						
Percentile	99	95	75	50	25	5	1	Average	Median
	906.3	865.3	595.2	186.7	0.1	0.0	0.0	302.3 W/m ²	186.7 W/m ²

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	Daily Maximum		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1-Jul-06	0	0	0	0	9	32	187	424	552	721	825	888	907	880	813	686	606	426	187	27	3	0	0	0	340.5	906.8	
2-Jul-06	0	0	0	0	15	121	199	204	421	456	400	667	571	918	828	666	595	293	264	92	9	0	0	0	280.0	917.6	
3-Jul-06	0	0	0	0	15	83	197	395	559	678	718	737	817	614	648	707	532	397	242	74	6	0	0	0	309.2	816.7	
4-Jul-06	0	0	0	0	10	80	212	376	554	699	802	872	876	869	782	690	552	388	228	74	7	0	0	0	336.2	875.7	
5-Jul-06	0	0	0	0	12	100	281	402	573	716	781	876	910	871	605	596	425	366	214	42	5	0	0	0	324.0	909.6	
6-Jul-06	0	0	0	0	3	43	85	109	207	261	466	734	892	863	791	689	549	342	211	75	4	0	0	0	263.5	892.2	
7-Jul-06	0	0	0	0	8	80	200	397	576	707	766	579	568	742	499	516	577	419	250	76	7	0	0	0	290.2	765.9	
8-Jul-06	0	0	0	0	9	104	233	395	573	711	812	883	901	879	817	706	565	407	249	80	6	0	0	0	347.1	901.4	
9-Jul-06	0	0	0	0	7	98	249	412	569	705	812	880	909	885	789	661	595	382	237	33	5	0	0	0	342.8	908.7	
10-Jul-06	0	0	0	0	8	96	245	409	529	690	806	838	411	367	485	75	18	111	58	107	6	0	0	0	219.2	838.1	
11-Jul-06	0	0	0	0	12	104	255	403	534	687	833	892	906	881	738	595	512	426	255	79	6	0	0	0	338.2	905.8	
12-Jul-06	0	0	0	0	9	47	180	407	567	612	675	288	810	841	647	550	150	58	3	12	1	0	0	0	244.1	841.3	
13-Jul-06	0	0	0	0	6	94	243	408	570	712	821	878	882	824	825	701	566	386	248	76	5	0	0	0	343.6	881.7	
14-Jul-06	0	0	0	0	8	98	246	409	569	710	818	887	913	888	817	710	574	410	244	76	6	0	0	0	349.2	912.7	
15-Jul-06	0	0	0	0	8	99	250	413	575	721	834	902	923	901	826	713	574	414	248	78	5	0	0	0	353.5	923.4	
16-Jul-06	0	0	0	0	7	87	168	395	552	694	803	873	888	670	655	578	513	395	237	74	5	0	0	0	316.5	888.3	
17-Jul-06	0	0	0	0	6	88	236	400	561	698	800	846	869	853	787	705	565	401	171	83	4	0	0	0	336.4	868.9	
18-Jul-06	0	0	0	0	5	82	229	399	427	556	658	525	768	739	667	590	488	353	231	60	4	0	0	0	282.5	768.5	
19-Jul-06	0	0	0	0	1	19	73	162	438	613	795	868	907	761	667	504	294	241	158	65	3	0	0	0	273.7	906.8	
20-Jul-06	0	0	0	0	0	5	63	201	549	662	789	862	901	529	700	537	512	401	201	64	4	0	0	0	290.8	901.3	
21-Jul-06	0	0	0	0	4	76	218	379	539	683	792	853	867	853	786	664	537	381	223	62	3	0	0	0	330.0	866.5	
22-Jul-06	0	0	0	0	3	70	219	386	539	682	794	757	918	853	767	638	414	239	186	39	2	0	0	0	312.7	917.6	
23-Jul-06	0	0	0	0	3	42	89	144	130	250	323	476	745	743	718	732	436	262	228	54	3	0	0	0	224.1	744.6	
24-Jul-06	0	0	0	0	2	63	200	357	540	634	736	145	271	753	779	658	496	358	212	52	2	0	0	0	260.8	778.9	
25-Jul-06	0	0	0	0	3	62	198	353	470	350	514	838	697	594	717	636	269	185	105	40	3	0	0	0	251.4	837.9	
26-Jul-06	0	0	0	0	1	52	195	357	520	671	774	847	866	839	761	672	536	376	201	53	2	0	0	0	321.8	865.7	
27-Jul-06	0	0	0	0	1	54	191	346	509	652	763	834	788	797	735	626	473	329	174	36	1	0	0	0	304.5	833.9	
28-Jul-06	0	0	0	0	1	54	190	396	406	608	758	830	835	836	773	673	524	367	201	53	2	0	0	0	312.8	836.2	
29-Jul-06	0	0	0	0	1	48	184	345	511	644	730	820	849	802	729	650	360	105	57	17	1	0	0	0	285.5	848.7	
30-Jul-06	0	0	0	0	1	17	57	145	473	603	589	552	833	767	725	599	460	392	166	71	2	0	0	0	268.8	832.6	
31-Jul-06	0	0	0	0	2	55	197	360	522	664	778	859	873	822	774	668	464	340	205	49	2	0	0	0	318.0	872.5	
Hourly Avg	0.0	0.0	0.0	0.1	5.8	69.4	192.5	344.8	503.7	627.4	727.9	760.8	808.6	788.2	730.7	625.4	475.2	333.8	196.5	60.3	3.9	0.1	0.0	0.0			
Hourly Max	0.2	0.2	0.2	0.2	15.3	120.9	281.1	424.0	575.9	721.2	834.2	901.5	923.4	917.6	828.4	731.7	605.6	426.0	264.4	107.0	8.9	0.2	0.2	0.2			

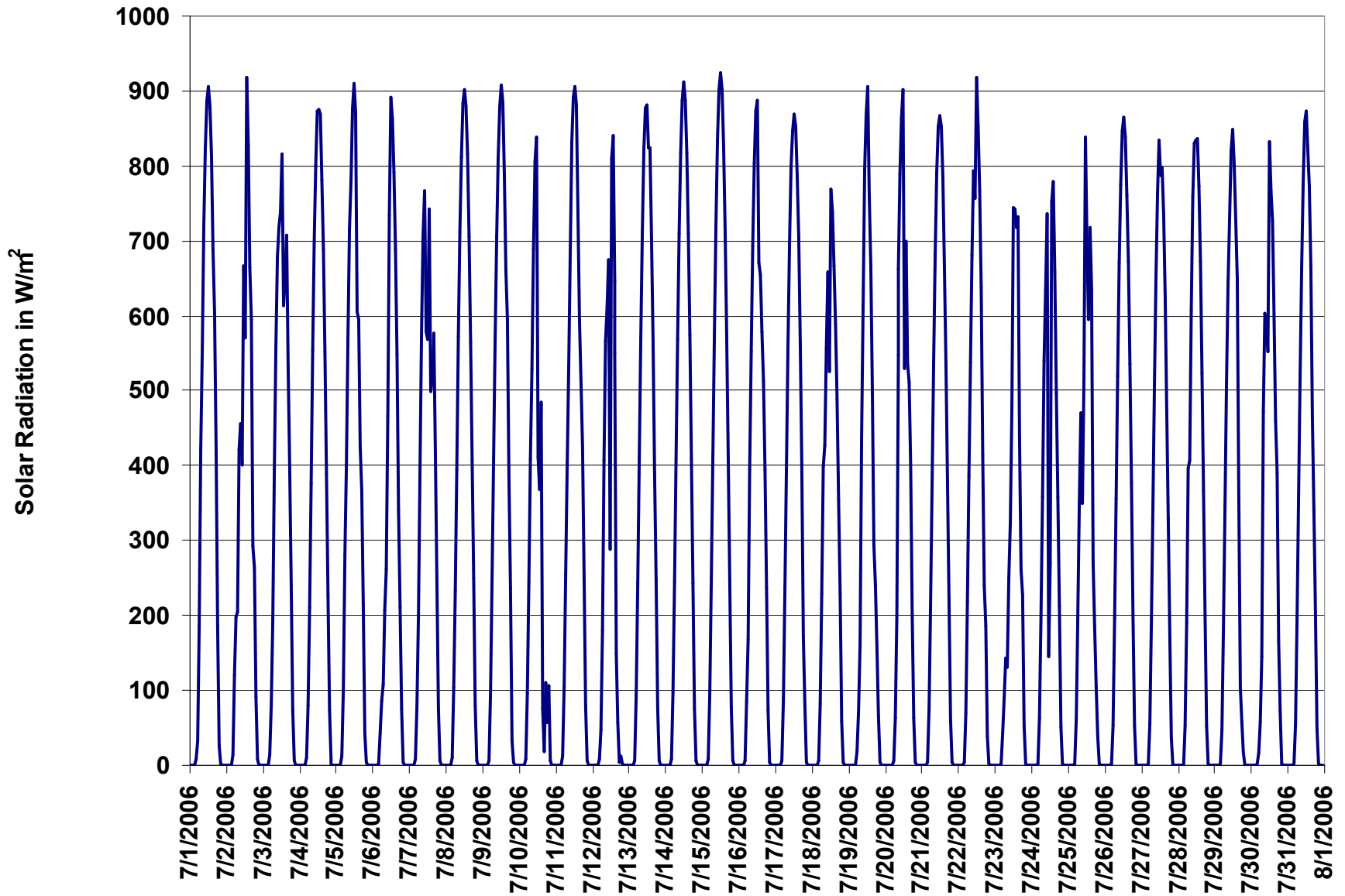


Figure 15. PAS - Crescent Heights Solar Radiation 1-hr Average Monthly Trend



PAS - Crescent Heights - Scalar Wind Speed Monthly Summary

Station: Crescent Heights
 Station Owner: PAS

HOURLY AVERAGE TABLE

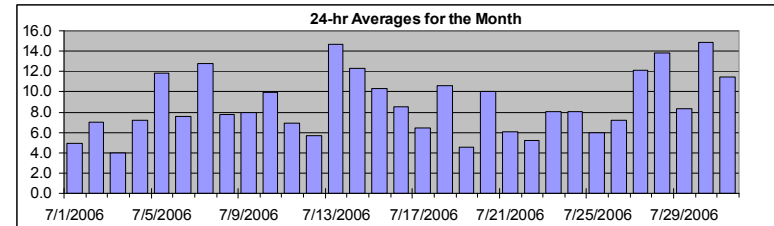
Wind Speed (WSs)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	28.1	km/hr	30-Jul	19:00 20:00
Maximum 24-hr Value:	14.9	km/hr	30-Jul	

Calm Time:	2 hrs	0% calms	Operational Time:	742 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageS
	22.1	17.3	11.6	8.1	5.2	2.6	1.4	8.8 km/hr



Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hr Scalar Average	Daily Max		
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00		
1-Jul-06	4	2	1	5	4	6	3	3	4	3	4	5	6	5	6	5	7	6	7	5	14	6	3	4	4.9	13.9	
2-Jul-06	4	5	7	5	7	10	10	9	5	5	3	4	6	6	5	6	5	11	13	11	9	9	7	8	7.0	12.9	
3-Jul-06	4	3	3	2	2	4	1	2	4	3	3	3	5	5	4	5	5	5	3	4	6	10	7	3	4.0	10.5	
4-Jul-06	3	1	2	1	1	1	calm	calm	3	6	10	12	11	10	10	10	11	9	9	9	8	7	15	7.2	15.1		
5-Jul-06	15	14	15	14	12	9	11	14	13	11	11	10	9	11	6	8	8	9	7	7	19	27	17	7	11.8	26.5	
6-Jul-06	6	4	2	3	4	5	4	7	9	5	4	10	14	13	12	8	9	8	7	5	11	12	12	7	7.6	13.8	
7-Jul-06	11	11	8	12	8	19	18	18	18	19	17	15	12	13	12	9	13	14	14	8	6	7	11	14	12.8	19.4	
8-Jul-06	16	15	12	10	6	5	2	4	4	5	7	8	7	7	8	8	8	10	8	7	6	5	6	11	7.8	15.7	
9-Jul-06	7	4	5	3	4	3	3	6	8	9	10	12	12	14	13	12	15	12	5	3	2	9	14	8	8.0	14.8	
10-Jul-06	3	12	13	6	3	6	7	7	8	7	6	9	9	8	13	22	18	8	9	14	14	12	12	12	9.9	22.1	
11-Jul-06	8	4	5	6	7	4	4	10	9	9	12	12	11	10	8	8	7	6	3	1	4	4	7	5	6.9	12.1	
12-Jul-06	3	3	3	5	7	7	2	6	6	7	4	6	4	5	6	7	6	5	16	8	7	6	3	4	5.7	15.8	
13-Jul-06	8	16	14	12	18	14	12	13	15	15	15	14	18	18	22	24	22	20	14	9	8	8	10	14	14.7	23.7	
14-Jul-06	13	14	13	7	10	12	9	12	13	11	11	18	20	19	16	17	17	16	12	8	7	6	6	9	12.3	20.2	
15-Jul-06	9	3	8	9	12	11	10	9	11	13	14	15	13	14	12	12	13	13	10	8	6	6	8	9	10.3	14.9	
16-Jul-06	11	13	9	7	7	6	10	12	10	12	11	9	8	9	6	8	10	12	11	9	6	5	3	3	8.5	12.7	
17-Jul-06	3	4	4	2	2	5	3	6	8	10	10	8	14	15	14	10	7	4	4	4	3	5	6	4	6.5	15.5	
18-Jul-06	7	7	12	10	13	13	16	17	12	10	10	11	10	9	7	8	8	14	13	10	11	12	8	8	10.6	17.1	
19-Jul-06	3	5	6	5	1	3	3	3	5	4	6	6	5	5	5	4	3	3	5	4	6	6	4	8	4.5	8.3	
20-Jul-06	10	8	10	14	16	14	14	9	12	12	8	8	11	13	16	13	11	10	8	7	6	4	4	3	10.0	15.6	
21-Jul-06	3	3	5	8	5	3	2	7	9	9	9	7	8	6	7	7	8	9	8	6	5	3	3	4	6.0	9.3	
22-Jul-06	3	5	5	5	3	2	2	1	2	3	4	4	4	6	4	7	8	7	8	8	11	11	7	4	5.2	11.1	
23-Jul-06	4	2	2	1	2	4	4	4	10	3	10	10	8	10	12	17	16	12	9	6	7	16	16	7	8.0	17.3	
24-Jul-06	4	2	4	5	3	2	2	5	8	10	12	17	12	9	9	9	14	16	22	12	8	5	2	3	8.1	21.9	
25-Jul-06	1	4	2	5	8	4	5	3	3	4	7	11	10	10	9	10	4	4	6	4	8	8	11	4	6.0	11.5	
26-Jul-06	6	9	9	8	4	5	8	5	6	7	8	7	8	9	11	11	11	11	8	2	3	5	6	5	7.2	11.5	
27-Jul-06	7	14	10	9	10	7	10	14	14	12	11	10	10	8	10	8	10	14	17	18	17	18	16	15	12.1	18.2	
28-Jul-06	16	13	14	13	14	17	19	19	17	11	8	8	7	8	10	10	8	5	11	25	25	21	18	16	13.9	25.5	
29-Jul-06	11	11	10	9	12	7	3	5	7	11	14	12	11	10	7	9	7	4	7	5	5	7	8	8	8.3	13.9	
30-Jul-06	11	9	12	12	17	10	11	9	11	11	10	14	15	16	17	20	22	24	22	28	21	17	9	8	14.9	28.1	
31-Jul-06	11	11	10	14	18	13	14	13	14	17	15	15	14	14	13	10	10	10	7	4	5	7	7	6	11.5	17.8	
1-hr Average	7.3	7.5	7.6	7.4	7.7	7.5	7.4	8.5	8.9	8.8	9.2	10.0	10.1	10.2	10.1	10.4	10.3	10.1	9.8	8.3	8.8	9.2	8.2	7.6			
Hourly Max	15.8	16.5	15.3	14.4	17.8	19.1	18.8	18.8	17.9	19.4	17.4	18.0	20.2	18.9	21.8	23.7	22.2	24.3	22.3	28.1	25.5	26.5	17.8	15.6			



PAS - Crescent Heights - Vector Wind Speed Monthly Summary

Station: Crescent Heights
Station Owner: PAS

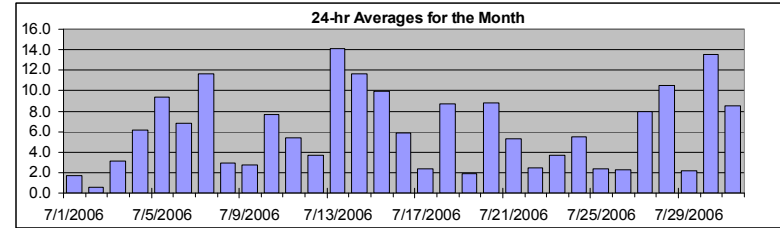
HOURLY AVERAGE TABLE

Wind Speed (WSv)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Maximum 1-hr Average:	28.0	km/hr	30-Jul	19:00 20:00
Maximum 24-hr Value:	14.1	km/hr	13-Jul	



Calm Time:	14 hrs	2% calms	Operational Time:	730 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	AverageV
	21.9	17.0	11.2	7.6	4.5	1.9	1.1	2.7 km/hr

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hr Vector Average	Daily Max	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-06	3	2	calm	5	3	3	2	3	4	2	4	4	3	3	5	3	4	6	6	5	14	4	calm	3	1.7	13.6
2-Jul-06	4	4	7	4	6	10	10	9	5	4	2	1	3	2	4	5	4	10	13	11	9	9	6	7	0.5	12.8
3-Jul-06	3	2	3	1	2	4	1	2	3	3	2	3	4	4	3	4	5	5	2	3	6	10	6	3	3.2	10.2
4-Jul-06	2	1	1	1	1	calm	calm	calm	2	5	10	12	10	9	10	10	9	10	9	9	9	8	7	15	6.1	15.0
5-Jul-06	15	14	15	14	11	9	10	14	12	10	11	9	8	10	5	7	7	8	1	6	18	26	13	6	9.4	26.1
6-Jul-06	6	3	2	2	4	4	4	7	8	4	4	9	13	13	10	7	9	8	7	5	10	11	12	6	6.8	13.1
7-Jul-06	11	10	7	12	8	19	18	18	18	19	17	14	12	13	11	9	13	14	14	7	5	7	10	14	11.7	19.0
8-Jul-06	16	15	12	9	3	5	2	4	4	3	5	6	5	6	7	7	6	9	8	7	6	5	6	11	2.9	15.7
9-Jul-06	7	4	4	3	4	3	3	6	7	8	9	11	11	14	12	11	14	12	5	3	1	8	14	7	2.8	14.0
10-Jul-06	2	12	13	4	2	6	7	7	7	6	5	8	9	7	13	22	17	7	8	13	13	12	12	12	7.6	21.7
11-Jul-06	8	3	5	6	7	3	4	10	9	9	11	12	10	10	7	7	6	5	3	calm	3	4	7	5	5.4	11.6
12-Jul-06	3	2	2	5	4	6	1	5	6	7	3	4	2	4	4	5	6	5	10	3	6	5	3	3	3.7	9.9
13-Jul-06	8	16	14	12	18	14	12	13	15	15	14	14	17	17	21	23	21	20	14	9	8	8	10	14	14.1	23.3
14-Jul-06	12	13	13	6	10	12	9	12	13	10	10	18	20	18	16	17	17	15	12	8	7	6	5	9	11.7	19.7
15-Jul-06	9	2	8	9	12	11	10	9	11	13	14	15	13	13	12	11	12	13	10	8	6	6	8	9	10.0	14.5
16-Jul-06	11	12	8	7	6	6	9	11	10	11	10	8	6	7	5	6	9	11	11	9	6	5	2	2	5.9	12.0
17-Jul-06	3	3	4	2	2	4	3	6	8	9	9	8	14	15	12	9	6	4	4	3	2	5	5	4	2.4	14.6
18-Jul-06	7	6	11	10	13	13	16	17	11	9	9	10	9	7	6	6	8	13	12	9	11	12	8	8	8.7	16.9
19-Jul-06	3	5	4	5	1	2	3	2	4	2	5	5	3	4	4	3	2	2	5	4	6	6	4	8	1.8	8.1
20-Jul-06	9	8	9	13	15	14	14	8	12	11	8	7	10	12	15	12	10	9	8	7	6	4	4	3	8.8	15.4
21-Jul-06	2	3	5	8	5	3	2	7	9	9	8	6	7	5	6	6	7	9	8	6	5	2	2	3	5.3	9.0
22-Jul-06	3	4	5	5	3	2	1	calm	calm	2	3	3	calm	2	1	6	8	7	8	8	11	10	7	4	2.4	11.1
23-Jul-06	4	2	2	calm	calm	3	3	4	8	1	10	10	7	9	12	17	15	11	9	6	7	16	16	6	3.7	17.1
24-Jul-06	3	1	4	5	1	1	calm	5	7	8	11	15	7	9	8	8	13	15	22	12	8	5	2	3	5.5	21.8
25-Jul-06	1	3	2	5	7	4	4	2	2	3	6	11	9	10	7	9	2	4	6	3	7	6	10	2	2.4	11.0
26-Jul-06	5	5	6	8	3	4	7	4	5	7	6	3	7	7	10	10	10	11	7	calm	2	5	6	5	2.2	11.0
27-Jul-06	7	14	9	9	10	7	10	14	13	12	10	9	8	6	9	6	9	13	17	18	17	18	15	15	8.0	18.0
28-Jul-06	15	12	13	12	14	17	19	19	17	11	6	5	3	6	9	9	7	4	7	25	25	21	18	15	10.5	25.4
29-Jul-06	11	11	10	9	11	7	3	4	6	11	13	11	10	9	7	8	6	2	1	calm	5	5	8	7	2.2	13.0
30-Jul-06	11	9	11	12	17	9	11	9	10	11	9	13	14	16	17	19	22	24	22	28	20	16	9	8	13.6	28.0
31-Jul-06	11	10	10	14	18	13	13	13	14	17	14	14	14	13	13	11	9	9	5	2	4	6	6	6	8.5	17.7
1-hr Vector	3.2	3.6	2.9	3.0	3.5	3.0	2.3	2.4	2.6	2.6	3.0	4.1	4.8	5.2	5.4	5.6	5.7	3.4	2.2	1.1	0.9	0.6	1.1	2.1		
Hourly Max	15.7	16.4	15.1	14.3	17.7	19.0	18.6	18.5	17.7	18.9	17.0	17.5	19.7	18.4	21.4	23.3	22.0	24.1	22.1	28.0	25.4	26.1	17.6	15.4		



PAS - Crescent Heights - Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs				
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%				
Percentile	99	95	75	50	25	5	1	Average
	355.9	339.3	252.6	215.2	110.0	19.8	2.7	243 deg

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day	Mountain Standard Time																							24-hour Average	WD Sector	
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00		
1-Jul-06	103	23	201	341	279	26	279	342	10	98	91	107	134	214	296	278	254	320	319	337	272	249	149	235	295	WNW
2-Jul-06	330	257	234	208	211	217	221	213	253	298	167	145	174	359	34	39	343	15	33	40	63	80	94	115	66	ENE
3-Jul-06	136	128	82	160	88	113	152	70	84	111	54	110	91	72	94	93	165	195	126	117	45	64	105	117	101	E
4-Jul-06	137	76	24	18	338	314	225	50	182	168	192	186	176	176	157	150	144	127	120	119	128	122	129	159	151	SSE
5-Jul-06	164	173	174	176	201	191	182	167	165	176	175	167	181	209	148	90	74	76	247	204	201	220	239	108	182	S
6-Jul-06	189	201	254	182	208	228	211	238	215	169	176	206	224	239	242	271	272	254	258	279	260	238	224	222	232	SW
7-Jul-06	228	232	259	235	239	227	223	231	240	255	278	290	303	292	284	263	239	244	231	240	227	232	209	226	247	WSW
8-Jul-06	224	231	232	241	286	313	350	216	226	256	4	3	317	310	318	299	318	350	3	34	34	75	111	89	300	WNW
9-Jul-06	102	103	114	111	100	78	98	75	82	84	167	156	179	191	189	180	216	233	255	274	8	337	3	339	161	SSE
10-Jul-06	174	313	319	7	220	221	226	242	252	234	225	213	226	213	223	278	263	131	233	198	221	240	249	236	242	WSW
11-Jul-06	236	250	202	219	230	216	228	225	228	216	216	215	233	243	257	236	239	231	249	329	87	97	112	105	222	SW
12-Jul-06	106	153	227	212	328	312	176	201	198	201	141	168	173	159	195	222	234	305	186	119	176	146	187	195	191	SSW
13-Jul-06	227	228	227	210	221	230	216	247	257	274	269	266	244	242	230	229	233	234	242	250	255	260	249	253	240	WSW
14-Jul-06	258	231	223	243	237	228	214	212	208	210	210	235	243	248	260	246	252	253	252	262	265	255	181	221	237	WSW
15-Jul-06	225	212	222	233	226	228	223	224	222	233	237	240	251	251	261	245	245	257	257	260	277	235	220	218	239	WSW
16-Jul-06	231	228	278	300	281	297	355	27	6	13	1	0	345	329	349	339	346	353	6	17	5	15	93	66	343	NNW
17-Jul-06	124	106	123	97	94	121	85	74	60	81	108	167	209	213	234	256	264	270	298	303	258	210	231	181	189	S
18-Jul-06	215	225	310	281	282	294	302	321	326	335	338	355	358	328	327	292	320	351	10	5	2	2	348	345	326	NNW
19-Jul-06	83	248	288	321	338	230	241	227	154	137	147	127	106	83	122	159	135	91	57	58	72	107	87	117	ESE	
20-Jul-06	59	51	49	8	352	18	43	73	39	31	17	14	359	356	352	11	10	29	18	35	80	102	112	111	26	NNE
21-Jul-06	110	152	197	219	205	203	206	220	231	227	227	231	178	176	211	183	189	195	201	232	263	275	174	140	207	SSW
22-Jul-06	184	167	177	180	164	152	94	27	106	187	187	213	200	75	63	31	20	28	25	29	48	73	99	106	80	E
23-Jul-06	121	103	347	123	202	275	272	244	358	121	223	215	225	210	205	204	213	217	231	241	278	339	2	25	240	WSW
24-Jul-06	215	196	341	242	33	245	163	198	231	253	293	242	288	303	266	305	339	335	343	358	341	334	344	330	301	WNW
25-Jul-06	95	211	204	213	215	200	195	92	136	39	86	123	127	107	162	205	187	64	66	31	33	22	355	86	118	ESE
26-Jul-06	332	306	11	320	269	298	318	9	352	354	3	329	191	193	220	228	222	217	215	266	85	105	114	144	271	W
27-Jul-06	222	233	260	358	31	15	343	348	356	2	7	21	40	32	29	32	34	49	59	69	76	81	79	69	35	NE
28-Jul-06	88	84	80	84	80	62	73	84	91	106	107	54	106	219	234	228	240	220	72	79	83	86	86	93	89	E
29-Jul-06	80	39	4	352	351	356	66	120	217	220	226	250	234	241	290	224	231	19	149	88	145	208	230	253	247	WSW
30-Jul-06	233	236	232	250	279	276	298	274	280	294	281	244	239	244	247	244	251	254	255	274	316	316	276	251	264	W
31-Jul-06	238	246	264	247	231	233	271	270	256	244	257	283	302	282	285	293	309	290	282	135	111	104	106	111	262	W
Hourly Avg	194	223	249	250	254	253	252	238	249	243	239	231	230	242	248	248	255	274	283	5	13	52	146	154		



PAS - Crescent Heights - Standard Deviation of Wind Direction Monthly Summary

Station: Crescent Heights
Station Owner: PAS

HOURLY AVERAGE TABLE

Wind Direction (WD)

Monitoring Dates: July 1, 2006 to August 1, 2006

Summary

Determined by the Yamartino 15-min interval calculation

Calm Time:	0 hrs	0% calms	Operational Time:	744 hrs			
Calibration Time:	0 hrs		AMD Operational Uptime:	100.0%			
Percentile	99	95	75	50	25	5	1
	64.1	49.0	27.2	16.5	9.5	6.0	4.5

Status Flag Characters

C	Calibration	A	AIC - Zero / Span Check
S	Instrument out of Service	X	Filter Exchange
N	No Data	M	Equipment Maintenance
D	Excessive Instrument Drift	P	Power Failure

Day Mountain Standard Time

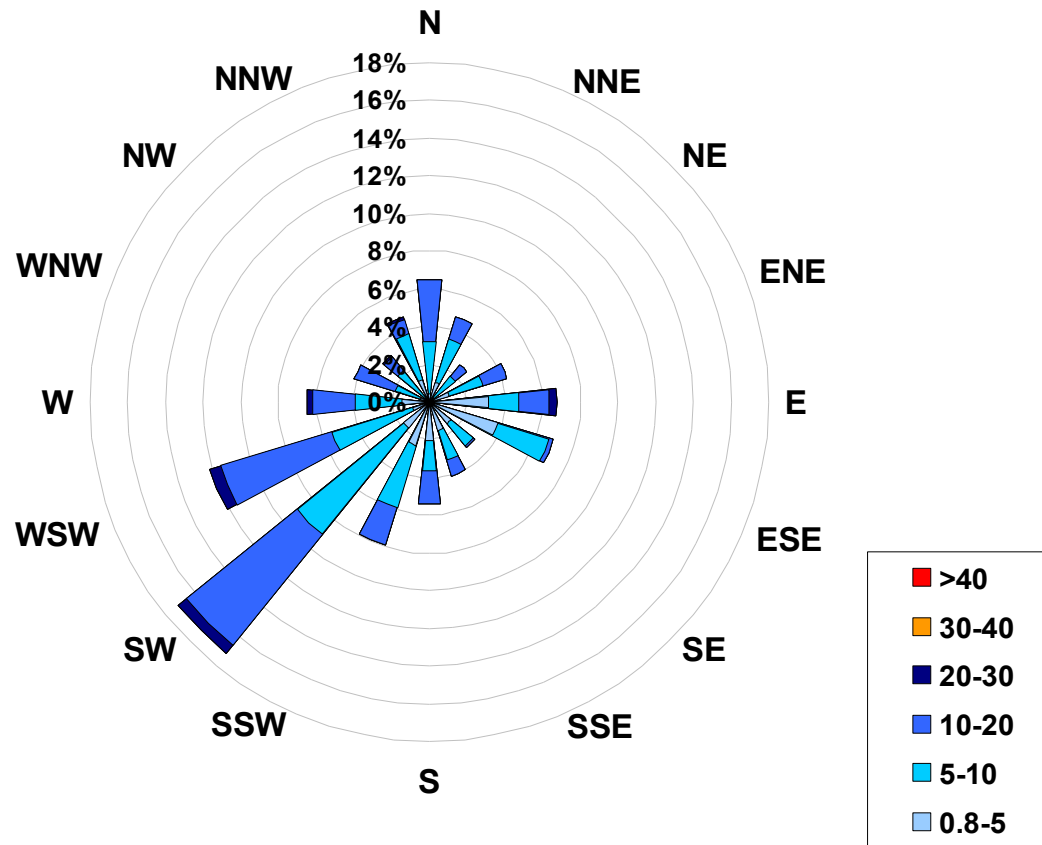
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
1-Jul-06	21	18	32	38	50	50	38	40	21	47	32	45	51	64	35	50	43	20	11	7	12	47	74	51	
2-Jul-06	9	36	7	20	7	7	5	10	24	37	41	42	47	52	46	32	30	15	7	6	7	8	19	9	
3-Jul-06	28	32	11	42	27	11	33	14	23	38	52	29	40	35	41	37	33	36	35	18	11	11	10	14	
4-Jul-06	34	20	31	16	13	41	57	44	34	23	17	14	18	18	17	18	16	11	8	6	7	7	7	7	
5-Jul-06	6	8	7	8	12	9	11	9	14	14	17	24	18	32	20	12	12	33	24	12	7	29	21		
6-Jul-06	30	17	37	38	23	21	24	24	24	23	25	19	16	14	24	26	18	17	13	19	11	10	5	17	
7-Jul-06	11	12	20	8	15	4	5	6	9	8	11	14	17	18	16	19	16	9	8	8	18	6	12	5	
8-Jul-06	4	4	7	9	52	26	36	22	37	36	52	30	42	36	36	26	39	20	13	8	5	14	11	7	
9-Jul-06	19	12	21	17	7	10	17	13	13	18	15	17	18	17	17	18	12	10	13	19	47	8	6	12	
10-Jul-06	33	21	8	29	44	7	8	14	14	25	37	30	17	17	10	10	10	24	30	8	8	9	9	6	
11-Jul-06	12	33	19	20	16	39	23	9	14	15	14	19	20	22	24	32	21	24	46	34	12	8	7	9	
12-Jul-06	13	29	51	26	24	41	68	13	17	27	54	29	44	36	49	32	11	17	20	53	35	16	20	26	
13-Jul-06	10	6	6	6	5	7	7	9	9	14	15	13	16	13	10	10	9	7	9	9	8	12	8	7	
14-Jul-06	7	7	5	30	5	5	9	8	12	14	16	12	10	11	11	10	11	7	7	8	8	13	11	6	
15-Jul-06	12	40	9	8	6	7	8	10	10	10	10	13	13	13	16	17	10	9	8	7	10	6	5	7	
16-Jul-06	9	7	25	10	18	17	11	14	16	24	22	23	39	27	49	34	26	18	12	7	5	6	15	19	
17-Jul-06	28	16	11	18	15	25	24	14	12	14	17	23	15	15	16	19	25	50	20	17	21	11	34	19	
18-Jul-06	12	31	11	9	8	8	8	6	11	18	23	18	29	32	38	48	26	12	11	9	5	3	5	9	
19-Jul-06	18	17	32	35	33	64	30	44	33	48	36	28	37	35	31	52	34	39	9	11	2	10	12	11	
20-Jul-06	7	6	14	10	7	5	7	12	12	15	20	19	27	16	15	17	20	20	15	14	6	14	8	12	
21-Jul-06	17	17	20	5	10	37	34	13	14	11	24	44	34	46	41	30	27	17	18	10	9	21	18	18	
22-Jul-06	18	14	6	7	10	21	21	66	70	49	56	56	67	55	78	34	17	11	5	4	5	11	12	9	
23-Jul-06	10	37	22	55	40	40	32	49	49	60	14	17	17	14	13	7	8	7	8	7	10	9	4	41	
24-Jul-06	41	36	15	23	37	65	56	34	14	21	19	17	29	17	29	22	17	12	5	6	4	6	18	18	
25-Jul-06	27	28	50	14	8	44	16	41	44	25	19	12	23	16	26	18	47	17	9	13	11	9	11	42	
26-Jul-06	30	46	43	23	32	21	19	28	26	24	43	46	30	41	27	24	18	15	17	28	26	8	22	14	
27-Jul-06	14	10	27	18	7	11	8	9	11	17	21	29	35	37	19	38	25	13	8	6	6	7	8	9	
28-Jul-06	8	10	6	6	6	5	7	7	10	18	37	37	56	47	26	22	43	45	48	6	5	8	9	8	
29-Jul-06	10	10	8	8	9	9	27	29	38	20	14	15	17	26	27	26	44	53	27	58	28	17	16	12	
30-Jul-06	6	12	9	7	8	20	14	17	19	17	23	18	18	15	12	13	7	7	6	6	8	8	12	12	
31-Jul-06	7	9	10	7	5	7	10	11	12	12	19	19	17	18	23	27	25	27	25	28	9	21	6	8	

Daily Maximum
74.2
51.7
52.4
57.1
33.2
38.1
20.5
52.3
47.3
43.7
45.6
68.1
16.1
29.7
39.9
49.4
49.7
48.1
64.4
26.5
45.9
78.3
59.7
65.0
49.9
46.4
38.1
56.5
58.0
22.7
27.5

Hourly Max	41	46	51	55	52	65	68	66	70	60	56	56	67	64	78	52	47	53	48	58	47	47	74	51
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1-hr Average Wind Rose (in km/hr) Located at the Crescent Heights Site for July 2006



Calms: 0%

Frequency Distribution of Wind in km/hr			Frequency (hrs)
Range			
0.8	< 5		173
5	to 10		306
10	to 20		248
20	to 30		15
30	to 40		0
	> 40		0
Total Non-Zero Values			742



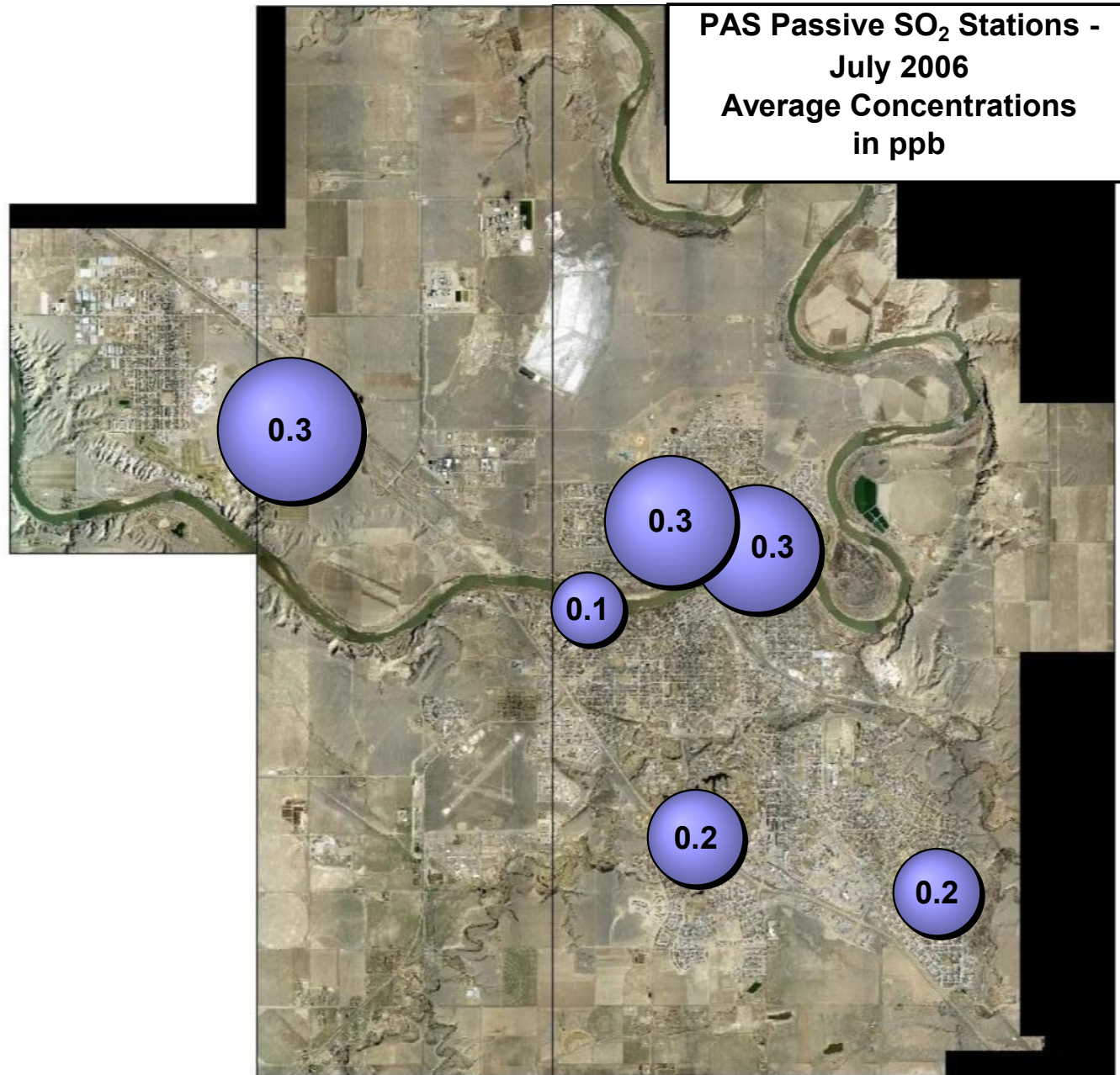
Passive Monitoring – July 2006

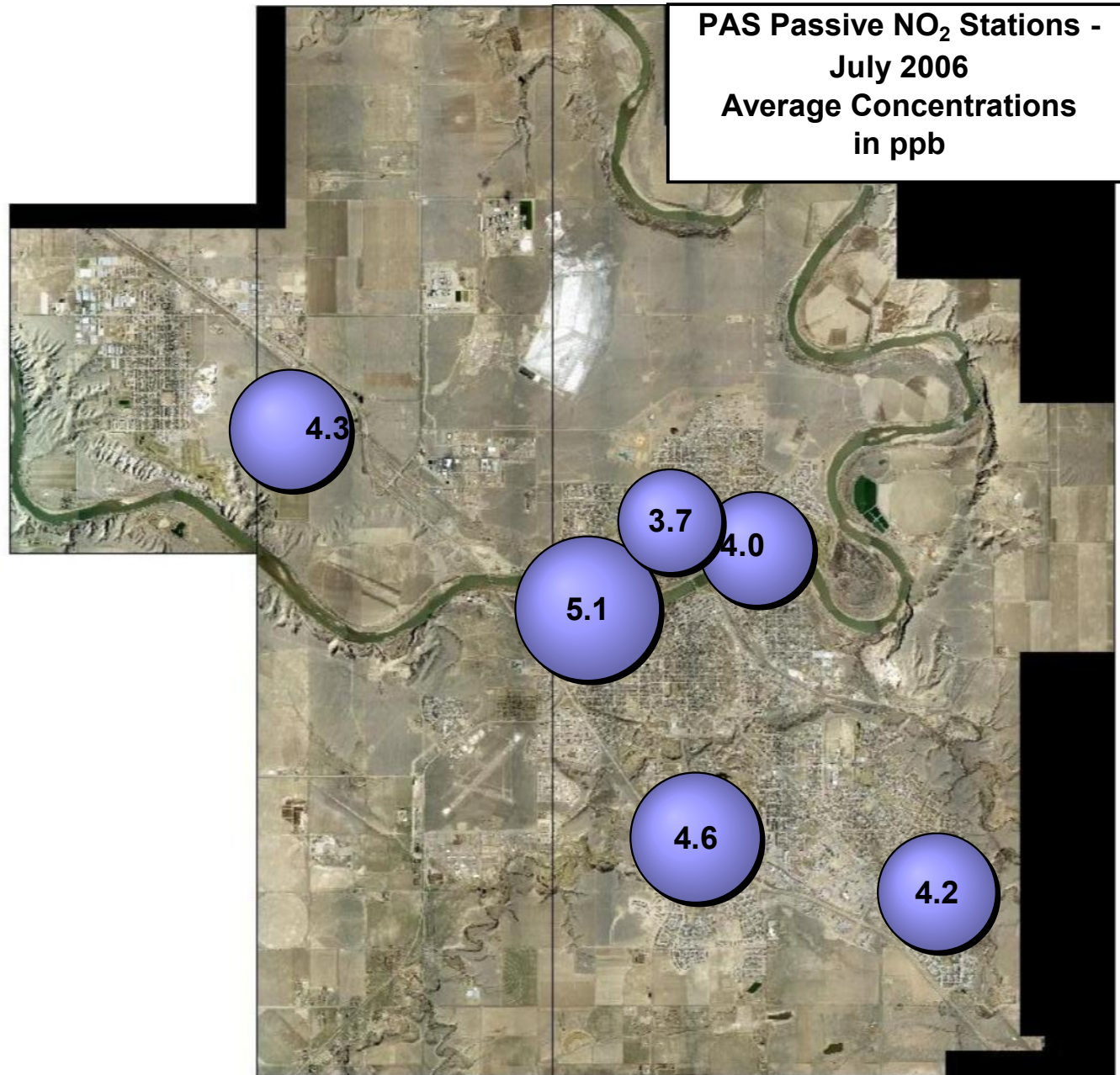
Ambient Air Compliance Network

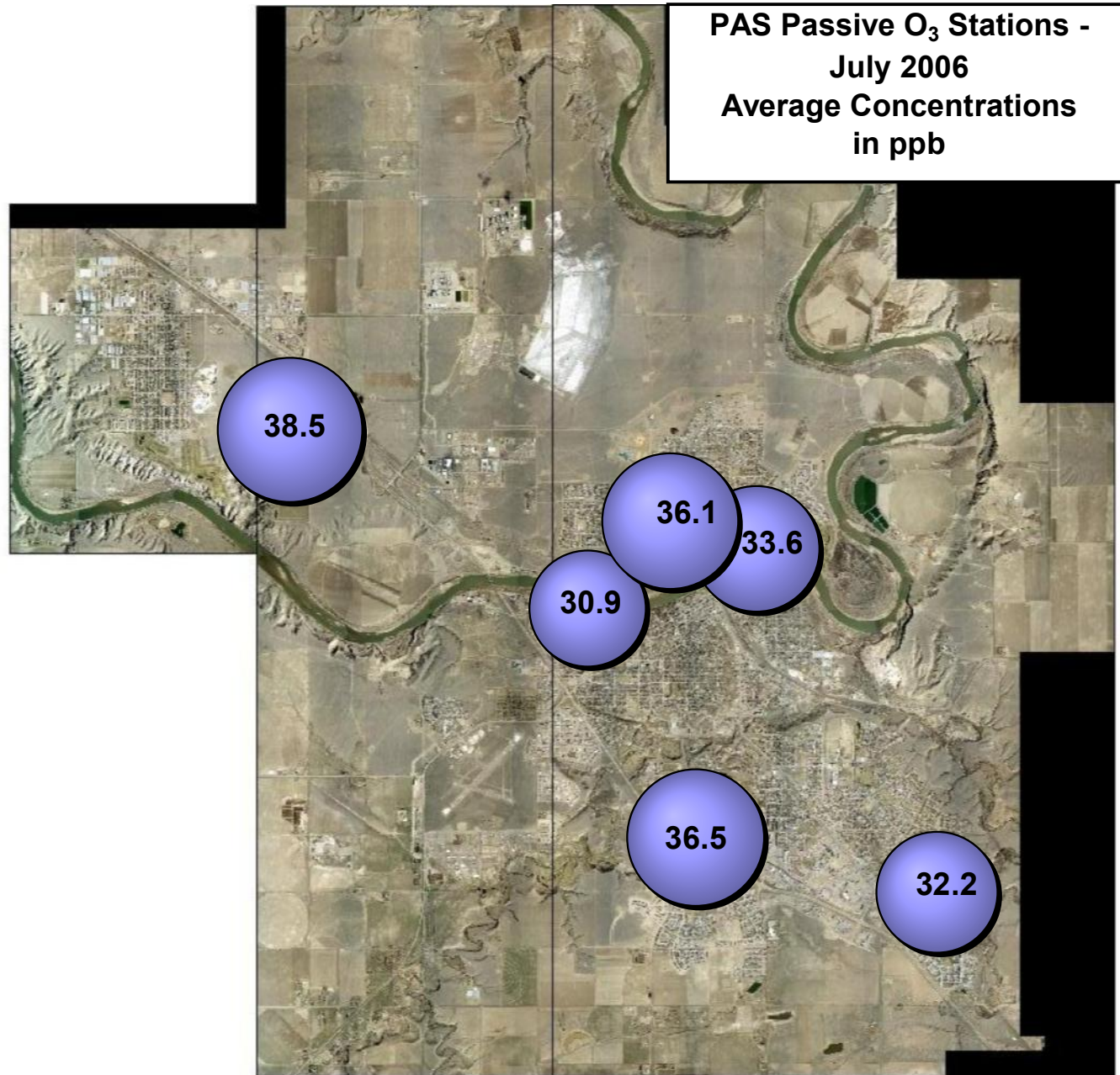
Palliser Airshed Society - PAS Passive Stations for July 2006

Station Number	Station	SO ₂ ppb	O ₃ ppb	NO ₂ ppb	Location		
	Name				Easting	Northing	Elevation
Duplicates							
3a	Monitoring Station	0.3	37.1	4.1			
3b		0.2	35.2	3.2			
1	Hospital	0.1	30.9	5.1	521648	5542721	698
2	Ball Park	0.3	33.6	4.0	524019	5543686	660
3	Monitoring Station	0.3	36.1	3.7	522812	5544133	714
4	Redcliff	0.3	38.5	4.3	517448	5545608	725
5	Southridge	0.2	36.5	4.6	523172	5539016	721
6	Christian School Park	0.2	32.2	4.2	526577	5538133	709

Stats:							
	Mean	0.2	34.6	4.3			
	Standard Deviation	0.1	2.9	0.5			
	Minimum	0.1			1		Hospital
	Maximum	0.3			4		Monitoring Station
	Minimum		30.9		1		Hospital
	Maximum		38.5		4		Monitoring Station
	Minimum			3.7	3		Monitoring Station
	Maximum			5.1	1		Hospital







PAS

July 2006 - Calibration Reports

Crescent Heights Station: O₃, NO_x, NO, NO₂, THC, CO and PM_{2.5}

Calibration Report

Parameter 03
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	July 26, 2006	Previous Calibration	June 15, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Calibration	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	10:17	End Time (MST)	11:12
Barometric Pressure	27.3 inches Hg	Station Temperature	19.7 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Concentrator	NA	Cal Gas Expiry Date	NA
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	5
	<u>Before</u>		<u>After</u>
Calculated slope	0.997785	Calculated slope	1.026545
Calculated intercept	3.495678	Calculated intercept	-1.693290
Analyzer make	API Model 400E	Analyzer serial #	331

	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
Offset	-6.3	ppb	-6.5	ppb
Slope	1.067		1.117	
Lamp measure	4892.7	mV	4832.5	mV
Lamp Reference	4792.5	mV	4834.2	mV
Pressure	25.0	inches Hg	25.8	inches Hg
Sample Flow	708	ccm	668	ccm
Sample temp	38	Deg C	42	Deg C

Calibration Data

Dilution air flow rate (cc/min)	Ozone Set Point	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.0	0.0	-1.5	N/A
4992	300.0	298.3	289.4	1.0307
4992	200.0	199.8	198.2	1.0079
4992	100.0	101.7	104.8	0.9708
4992	0.0	0.0	-1.5	0.0000
4992	300.0	298.3	268.0	1.1132
Average Correction Factor				1.0031

Calculated value of As Found Response: 272.4 ppm Percent Change of As Found: -8.7%

	before calibration		after calibration	
Auto zero	-5.0	ppb	-4.7	ppb
Auto span	356.8	ppb	344.1	ppb

Notes: _____

Calibration Performed By: LF, TM

Calibration Summary

Parameter O3
 Air Monitoring Network Palliser Airshed

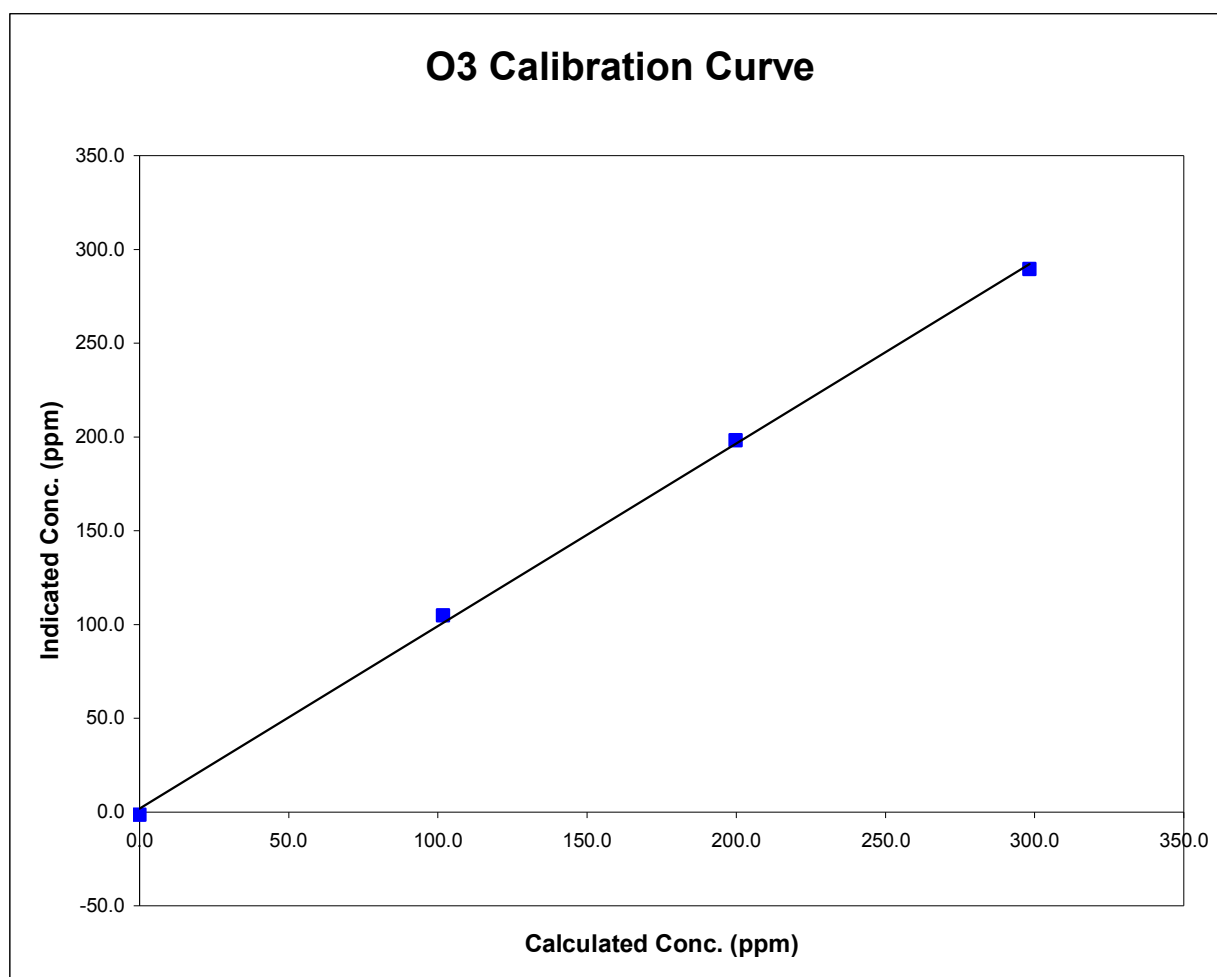


Station Information

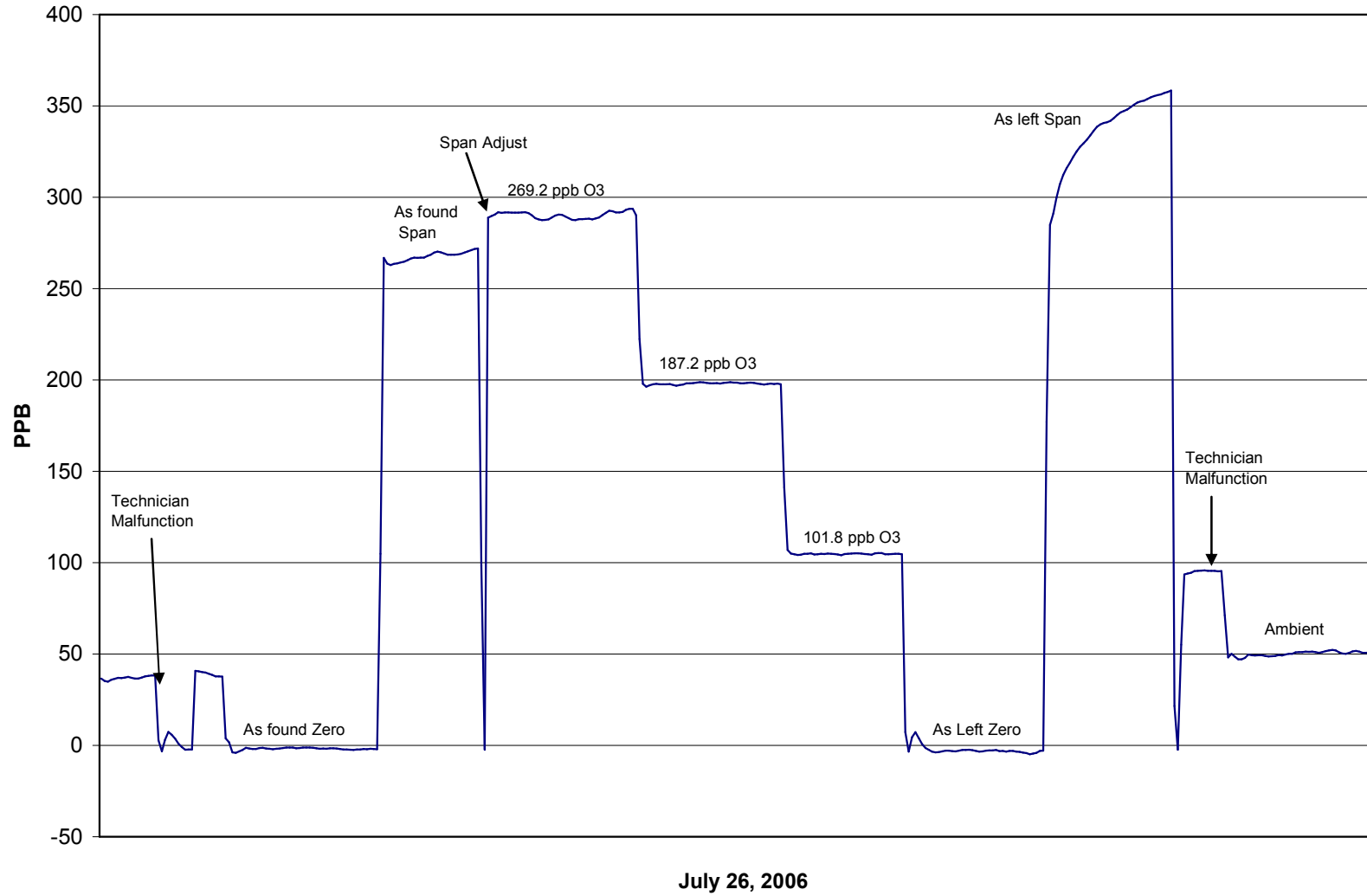
Calibration Date	July 26, 2006	Previous Calibration	June 15, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	10:17	End Time (MST)	11:12
Analyzer make/model	API Model 400E	Analyzer serial #	331

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
298.3	289.4	1.0307		
199.8	198.2	1.0079	Correlation Coefficient	0.999187
101.7	104.8	0.9708		
0.0	-1.5	N/A	Slope	1.026545
			Intercept	-1.693290



O3 Calibration



Calibration Report

Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date July 25, 2006 Previous Calibration June 14, 2006
 Station Number 101 Station Location Crescent Heights

Reason: Routine Installation Removal Other: _____

Start Time (MST) 11:09 End Time (MST) 14:33
 Barometric Pressure 27.3 inches Hg Station Temperature 20.3 Deg C
 Calibrator EnviroNics 6100 Serial Number 3474
 NO Cal Gas Conc 50.5 ppm Cal Gas Expiry Date 22-Nov-06
 NOx Cal Gas Conc 50.5 ppm Cal Gas Serial # BAL786

DACS Information

DACS make FOCUS AP1000 DACS serial No. 45270

Parameter		NO2	NOx	NO
Before	Data Slope	1.014194	1.011883	1.005853
	Data Offset	0.509312	-0.347709	0.866605
After	Data Slope	1.020337	1.017192	1.010860
	Data Offset	-0.176913	-1.080539	1.825379
Channel #		8	6	7
Voltage Range		0 - 1 VDC	0 - 1 VDC	0 - 1 VDC

Analyzer Information

Analyzer make/model API Model 200E Analyzer serial # 219

Test Point	before		after	
Concentration range	0 - 500	ppb	0 - 500	ppb
NO background	-0.2	mV	-0.2	mV
NOx background	1.1	mV	1.1	mV
NO coefficient	1.085		1.159	
NOx coefficient	1.101		1.173	
Chamber Temp	49.9	Deg C	49.9	Deg C
Cooler Temp	7.0	Deg C	7.0	Deg C
Azero	36.5		39.6	
Perm Temp	40.2	Deg C	40.4	Deg C
Pressure	4.6	inches Hg	4.6	inches Hg
Sample Flow	449.0	ccm	446.0	ccm

Notes: _____

Calibration Report

Parameter **NO_x-NO-NO₂**
Air Monitoring Network **Palliser Airshed**



Station Information

Calibration Date: July 25, 2006 Station Location: Crescent Heights

Calibration Data

	Dilution flow rate (ccm)	Source gas flow rate (ccm)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor
zero	4992	0.00	0.0	0.0	0.0	0.9	-2.4	0.9	N/A	N/A
1	4992	39.88	400.2	400.2	0.0	394.4	393.6	-1.3	1.0147	1.0168
2	4992	19.93	200.9	200.9	0.0	198.7	197.8	-1.4	1.0110	1.0153
3	4992	9.96	100.5	100.5	0.0	100.0	97.8	-0.5	1.0052	1.0284
AFZ	4992	0.00	0.0	0.0	0.0	0.9	-2.4	0.9	0.0000	0.0000
AFS	4992	39.88	400.2	400.2	0.0	379.4	383.2	-5.9	1.0547	1.0444
Average Correction Factor									1.0103	1.0202

As Found Concentrations NO_x= 378.2 NO= 386.4 As Found Percent Change NO_x= -5.5% NO= -3.4%

GPT Calibration Data

Dilution Flow 4992 ccm Source Gas Flow 39.88 ccm

O ₃ Setpoint (ppb)	Calculated NO _x conc (ppb)	Calculated NO conc (ppb)	Calculated NO ₂ conc (ppb)	Indicated NO _x conc (ppb)	Indicated NO conc (ppb)	Indicated NO ₂ conc (ppb)	NO _x Correction factor	NO Correction factor	NO ₂ Correction factor	Converter Efficiency
0	401.6	399.4	2.2	395.8	393.3	0.9	N/A	N/A	N/A	N/A
300	401.8	300.1	101.7	396.1	295.0	98.9	1.0145	1.0170	1.0285	97.2%
200	403.2	203.4	199.8	397.4	199.4	195.7	1.0145	1.0200	1.0207	98.0%
100	403.3	105.0	298.3	397.5	102.1	293.0	1.0145	1.0287	1.0180	98.2%
Average Correction Factor							1.0145	1.0219	1.0224	97.8%

AIC Data

Parameter	Previous calibration				Current calibration			
	NO _x	NO ₂	NO		NO _x	NO ₂	NO	
Auto zero	2.1	-0.7	2.1	ppb	-1.4	-1.1	-0.1	ppb
Auto span	413.7	404.2	8.6	ppb	378.0	374.8	5.1	ppb

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter NO₂
 Air Monitoring Network Palliser Airshed

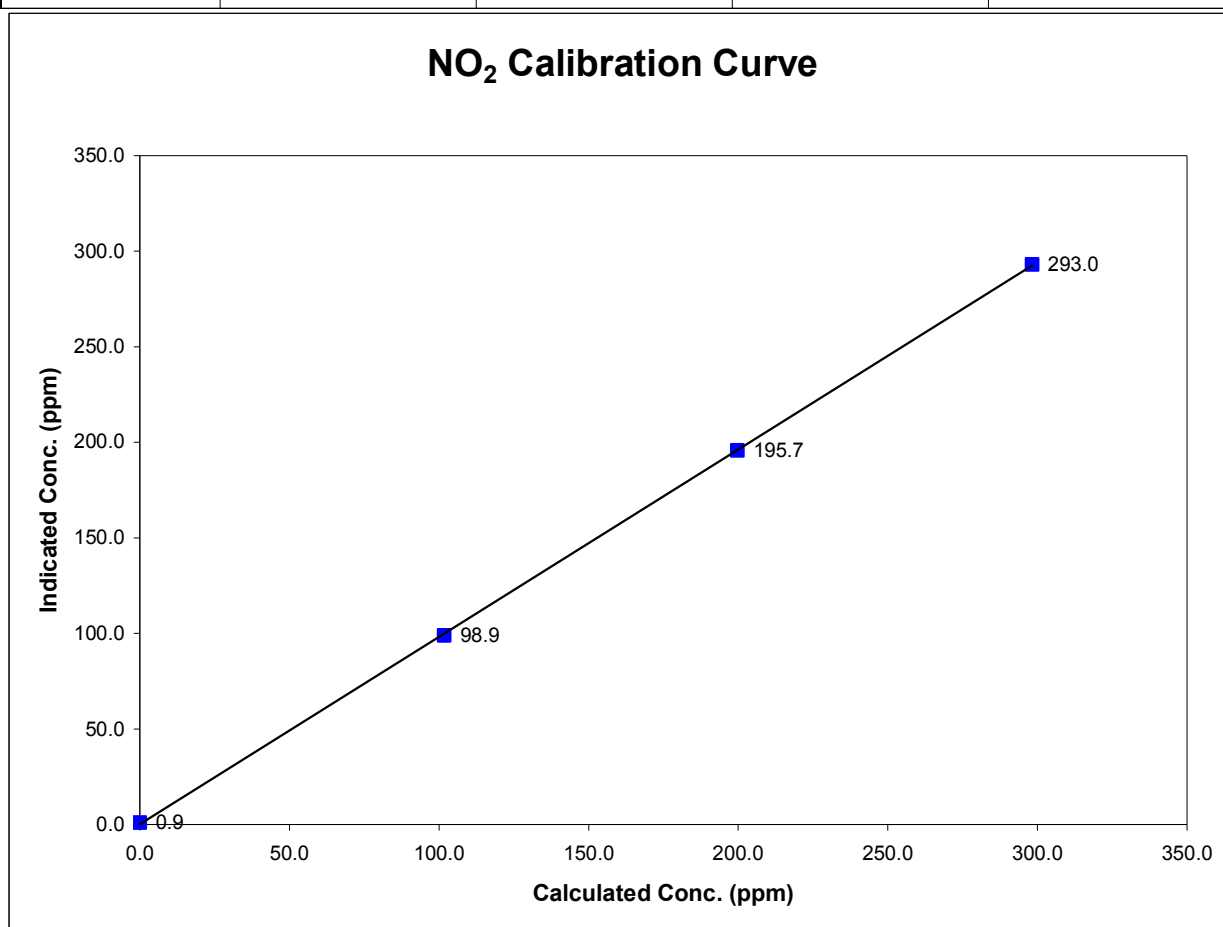


Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:09	End Time (MST)	14:33
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.9	0.0000	Correlation Coefficient	0.999963
101.7	98.9	1.0285		
199.8	195.7	1.0207		
298.3	293.0	1.0180		
			Slope	1.020337
			Intercept	-0.176913



Calibration Summary

Parameter NO_x
 Air Monitoring Network Palliser Airshed

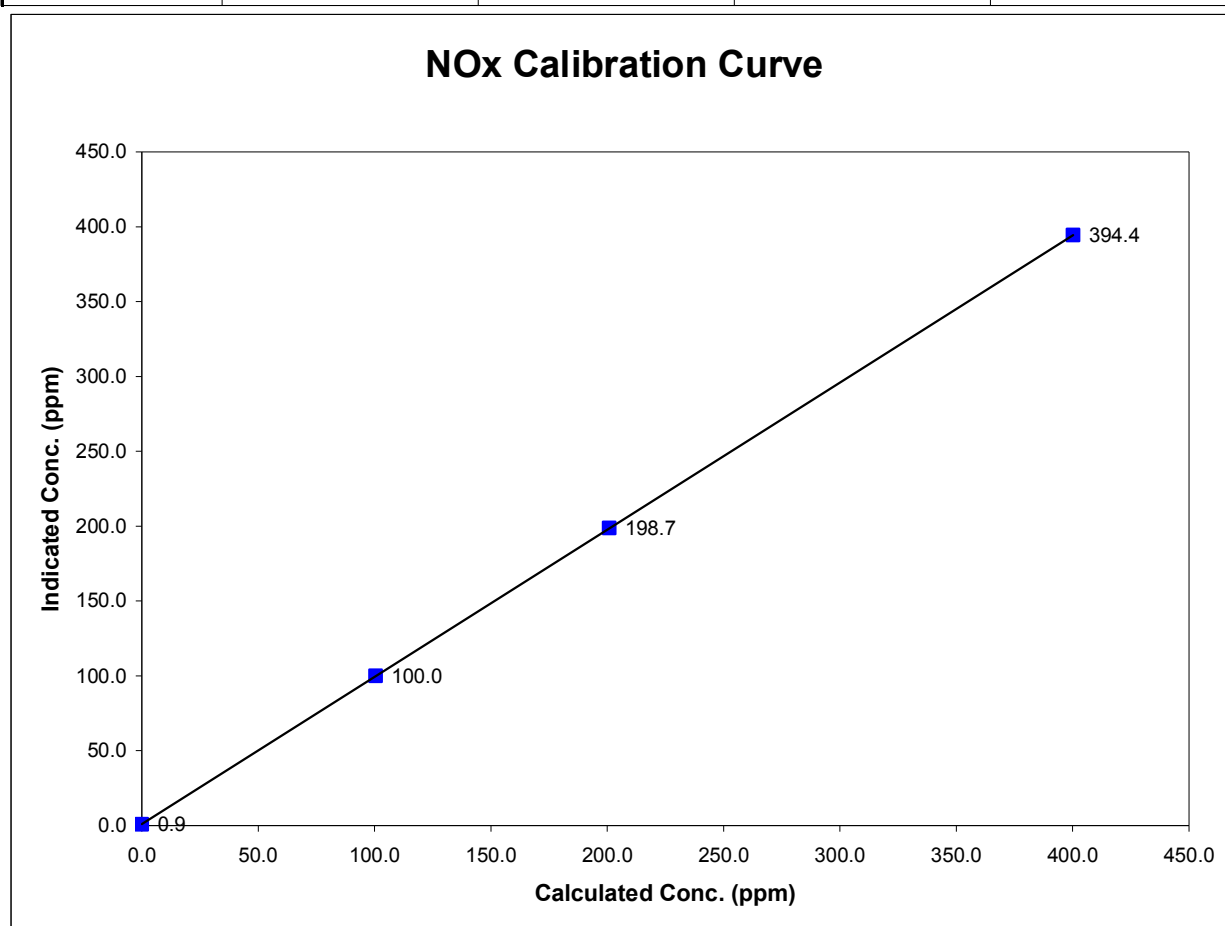


Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:09	End Time (MST)	14:33
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	0.9	0.0000		
400.2	394.4	1.0147	Correlation Coefficient	0.999999
200.9	198.7	1.0110		
100.5	100.0	1.0052	Slope	1.017192
			Intercept	-1.080539



Calibration Summary

Parameter NO
 Air Monitoring Network Palliser Airshed

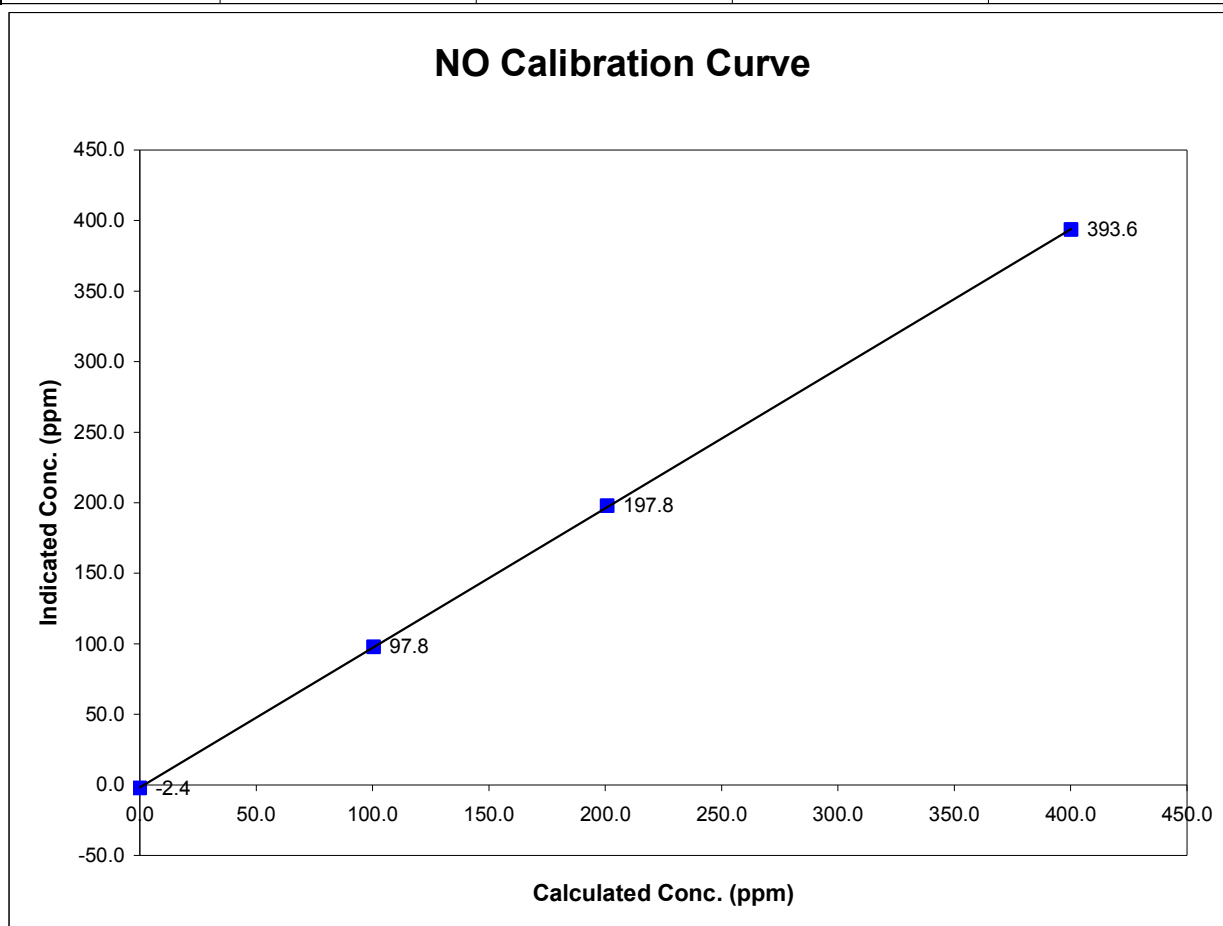


Station Information

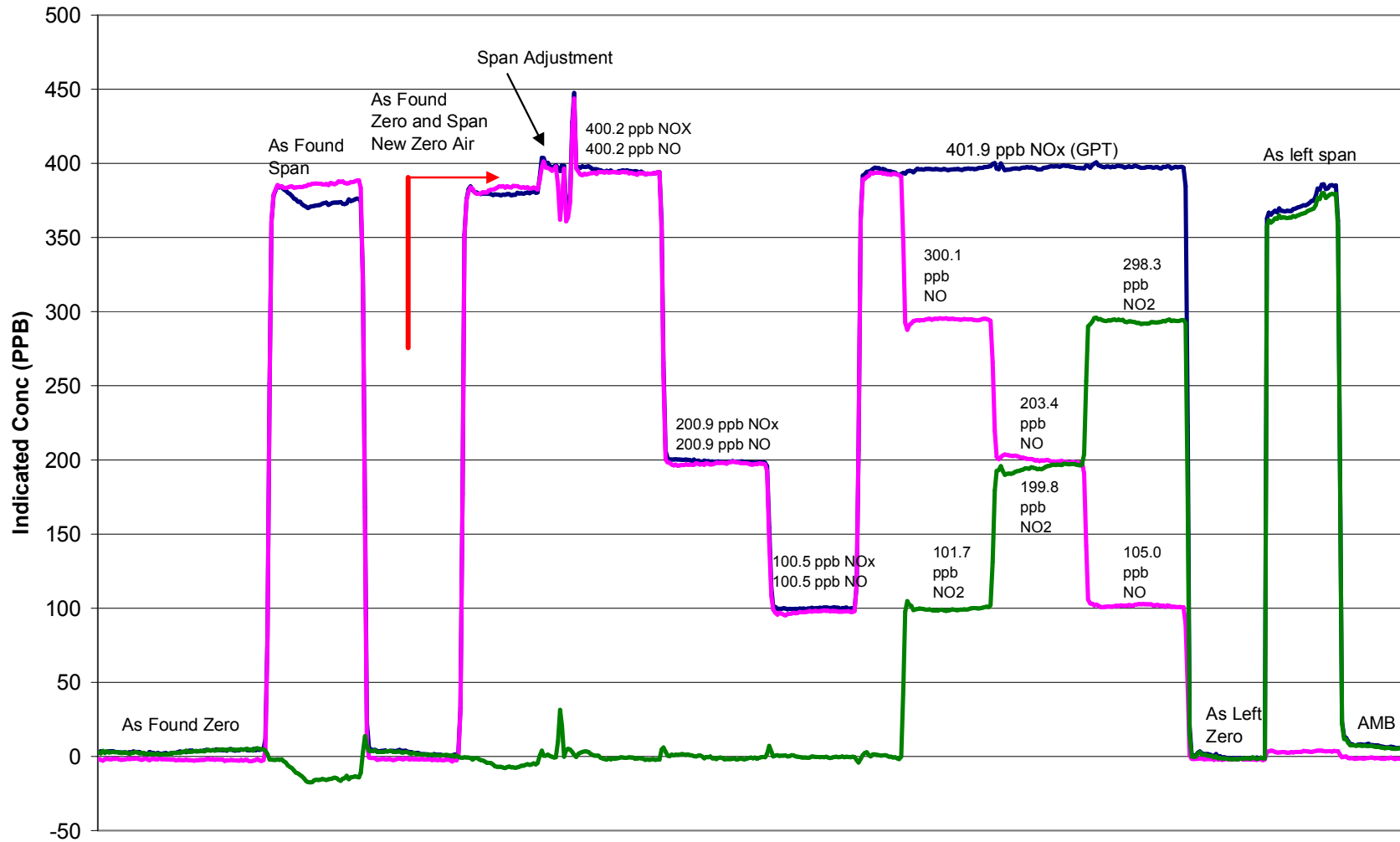
Calibration Date	July 25, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	11:09	End Time (MST)	14:33
Analyzer make	API Model 200E	Analyzer serial #	219

Calibration Data

Calculated conc (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.0	-2.4	N/A		
400.2	393.6	1.0168	Correlation Coefficient	0.999983
200.9	197.8	1.0153		
100.5	97.8	1.0284		
			Slope	1.010860
			Intercept	1.825379



NOx Calibration



July 25, 2006

Calibration Report

Parameter THC
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	July 25, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	15:45	End Time (MST)	20:00
Barometric Pressure	27.3 inches Hg	Station Temperature	20.2 Deg C
Calibrator	Envionics 6100	Serial Number	3747
Cal Gas Concentration	700 ppm CH ₄ / 301 ppm C ₃ H ₈	Cal Gas Expiry Date	8/28/2005
Cal Gas CH4 equiv	1527.75 ppm	Cal Gas Cylinder #	ALM030358
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 10 volt	DACS channel #	9
	Before		After
Calculated slope	1.007221	Calculated slope	0.998768
Calculated intercept	0.101549	Calculated intercept	0.062009
Analyzer make	TEI model 51C-LT	Analyzer serial #	407505596

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
THC sample pressure	5.75	PSI	5.77	PSI
THC span counts	12620	raw	12605	raw
THC zero counts	1557	raw	1370	raw

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	-0.03	N/A
4992	79.78	24.03	24.03	1.0000
4992	39.85	12.10	11.99	1.0093
4992	9.96	3.04	2.98	1.0199
zero	0.00	0.00	-0.38	As Found Zero
4992	79.78	24.03	23.66	As Found Span
Average Correction Factor				1.0097

Calculated value of As Found Response: 24.315 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.06	ppm	0.03	ppm
Auto span	23.35	ppm	10.97	ppm

Notes: Performed Zero and Span Adjustments

Calibration Performed By: Lenin Flores, Travis Mehrer

Calibration Summary

Parameter THC
 Air Monitoring Network Palliser Airshed

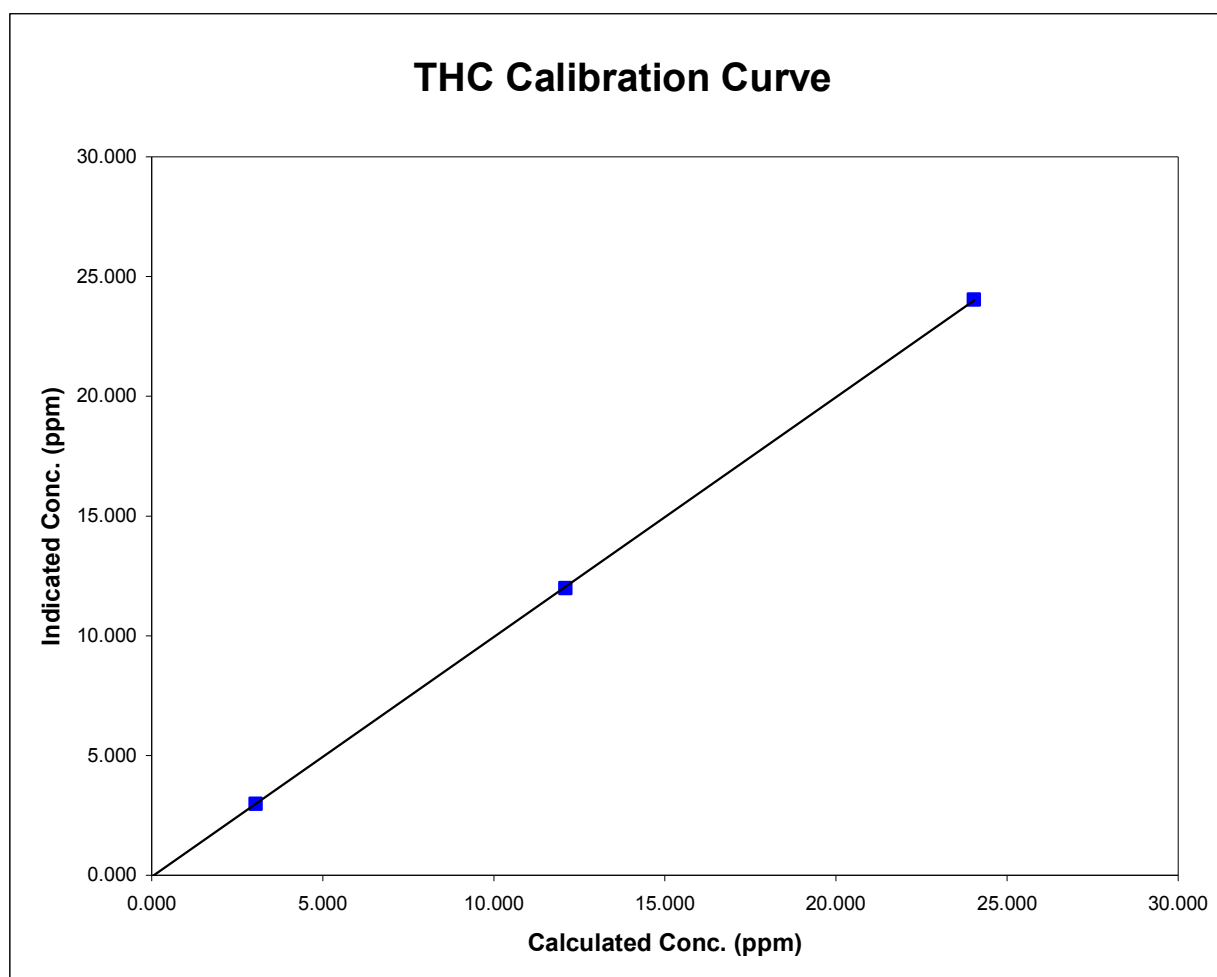


Station Information

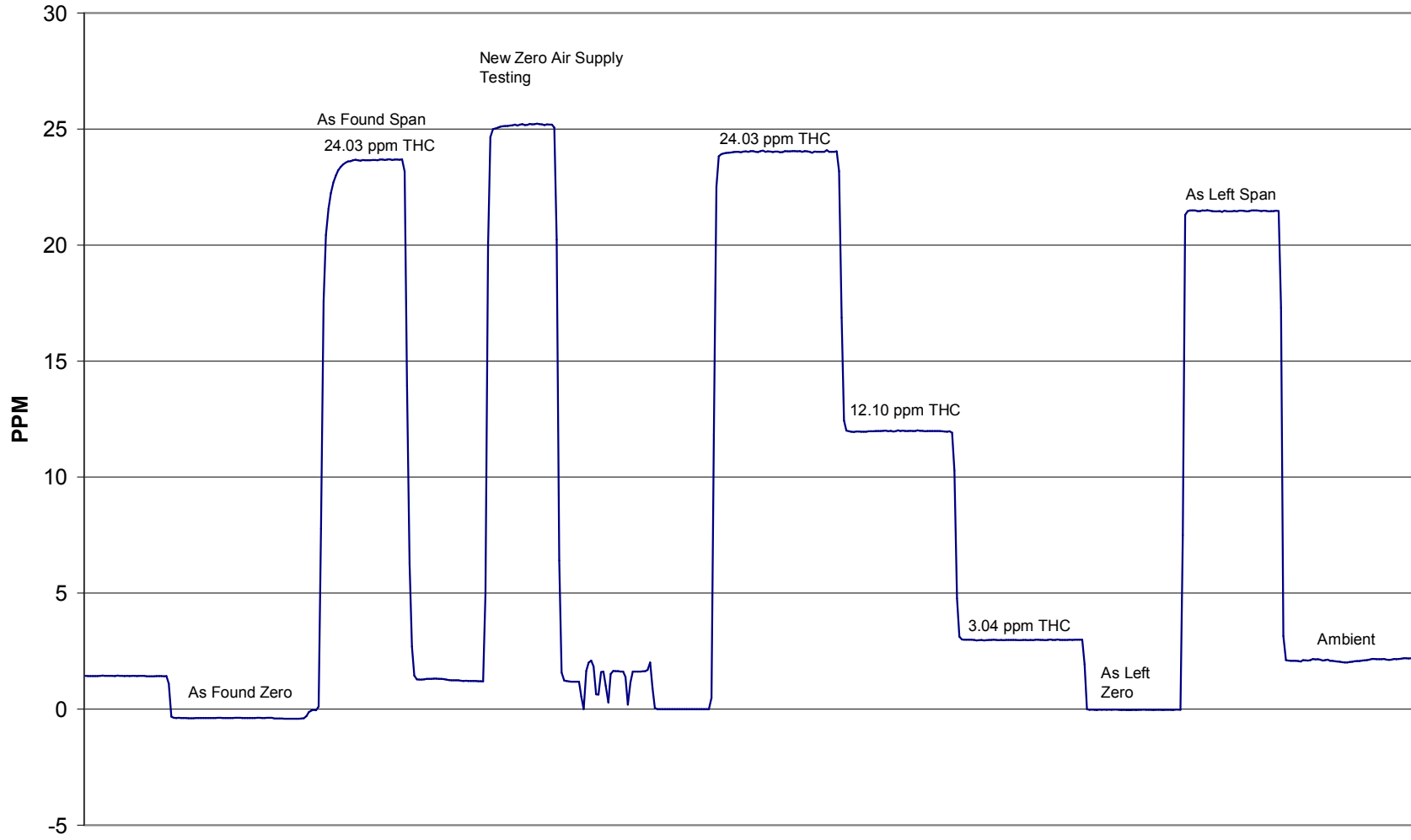
Calibration Date	July 25, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	15:45	End Time (MST)	20:00
Analyzer make/model	TEI model 51C-LT	Analyzer serial #	407505596

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.000	-0.029	N/A		
24.031	24.031	1.0000	Correlation Coefficient	0.999982
12.098	11.986	1.0093		
3.041	2.982	1.0199	Slope	0.998768
			Intercept	0.062009



THC Calibration



Calibration Report



Parameter CO
 Air Monitoring Network Palliser

Station Information

Calibration Date	July 26, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			Other: <input type="text"/>
Start Time (MST)	7:22	End Time (MST)	11:09
Barometric Pressure	27.3 in Hg	Station Temperature	20.6 Deg C
Calibrator	Envionics 6100	Serial Number	3474
Cal Gas Conc	2998 ppm	Cal Gas Expiry Date	3/14/2008
		Cal Gas Cylinder #	BLM002248
DACS make	Focus AP1000	DACS serial No.	45270
DACS voltage range	0 - 1 volt	DACS channel #	11
	<u>Before</u>		<u>After</u>
Calculated slope	0.989096	Calculated slope	0.998287
Calculated intercept	-0.086934	Calculated intercept	-0.149556
Analyzer make	TEI Model 48C	Analyzer serial #	436609887

	before		after	
Concentration range	0 - 50	ppm	0 - 50	ppm
CO coefficient	1.060		1.064	
CO bkg setting	9.568		9.920	
Lamp ratio	1.1490		1.1484	
Lamp intensity	199976	Hz	199354	Hz
Sample Flow	0.994	LPM	1.011	LPM

Calibration Data

Dilution air flow rate (cc/min)	Source gas flow rate (cc/min)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
4992	0.00	0.00	-0.01	N/A
4992	49.85	29.64	29.83	0.9936
4992	19.91	11.91	11.93	0.9981
4992	9.96	5.97	6.44	0.9267
4992	0.00	0.00	0.50	0.0000
4992	49.85	29.64	30.91	0.9588
Average Correction Factor				0.9728

Calculated value of As Found Response: 29.996 ppm Percent Change of As Found: -1.2%

	before calibration		after calibration	
Auto zero	0.30	ppm	-0.10	ppm
Auto span	20.77	ppm	19.59	ppm

Notes: Performed Zero and Span Adjustments

Calibration Performed By: LeninF, Travis Mehrer

Calibration Summary

Parameter CO
 Air Monitoring Network Palliser

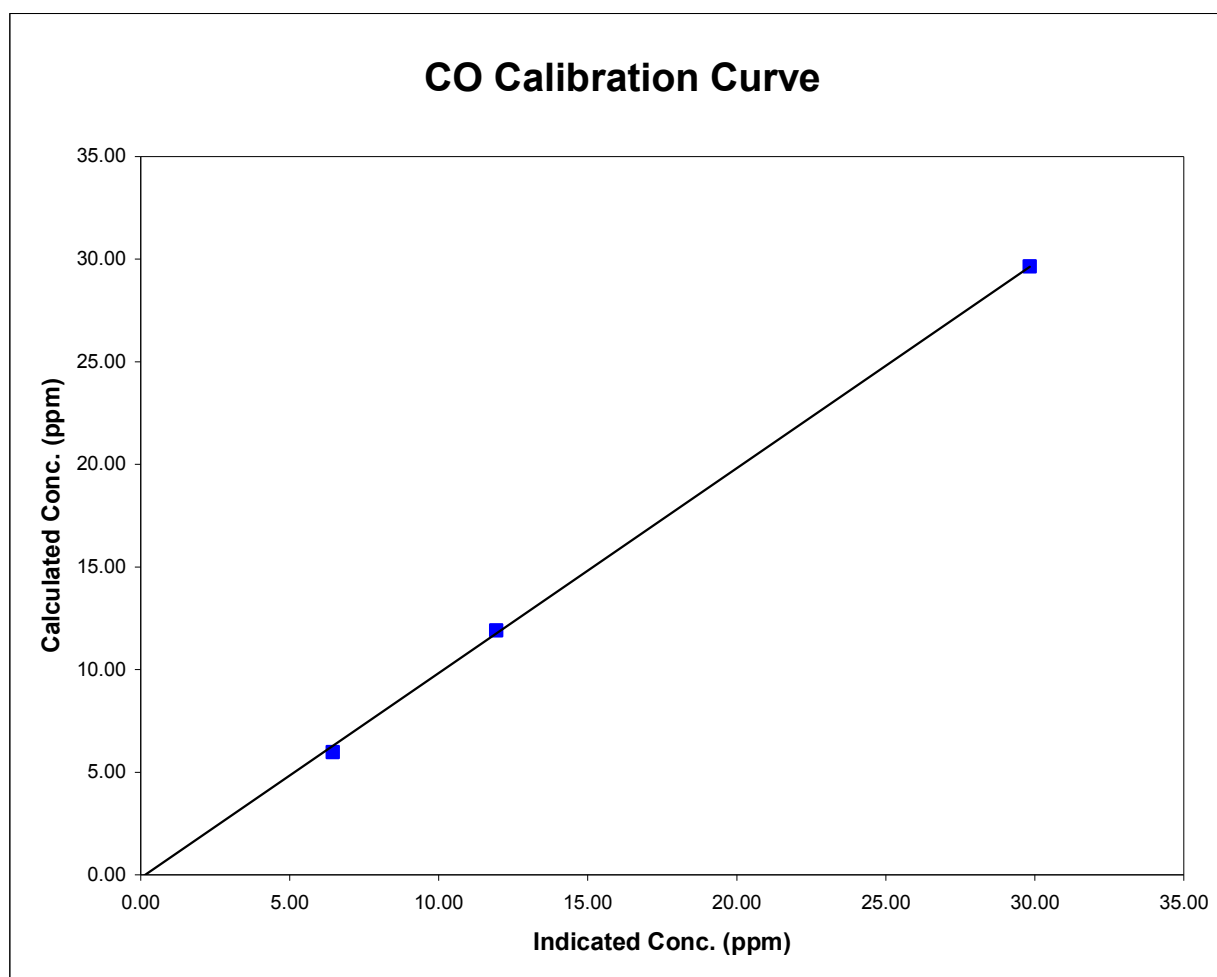


Station Information

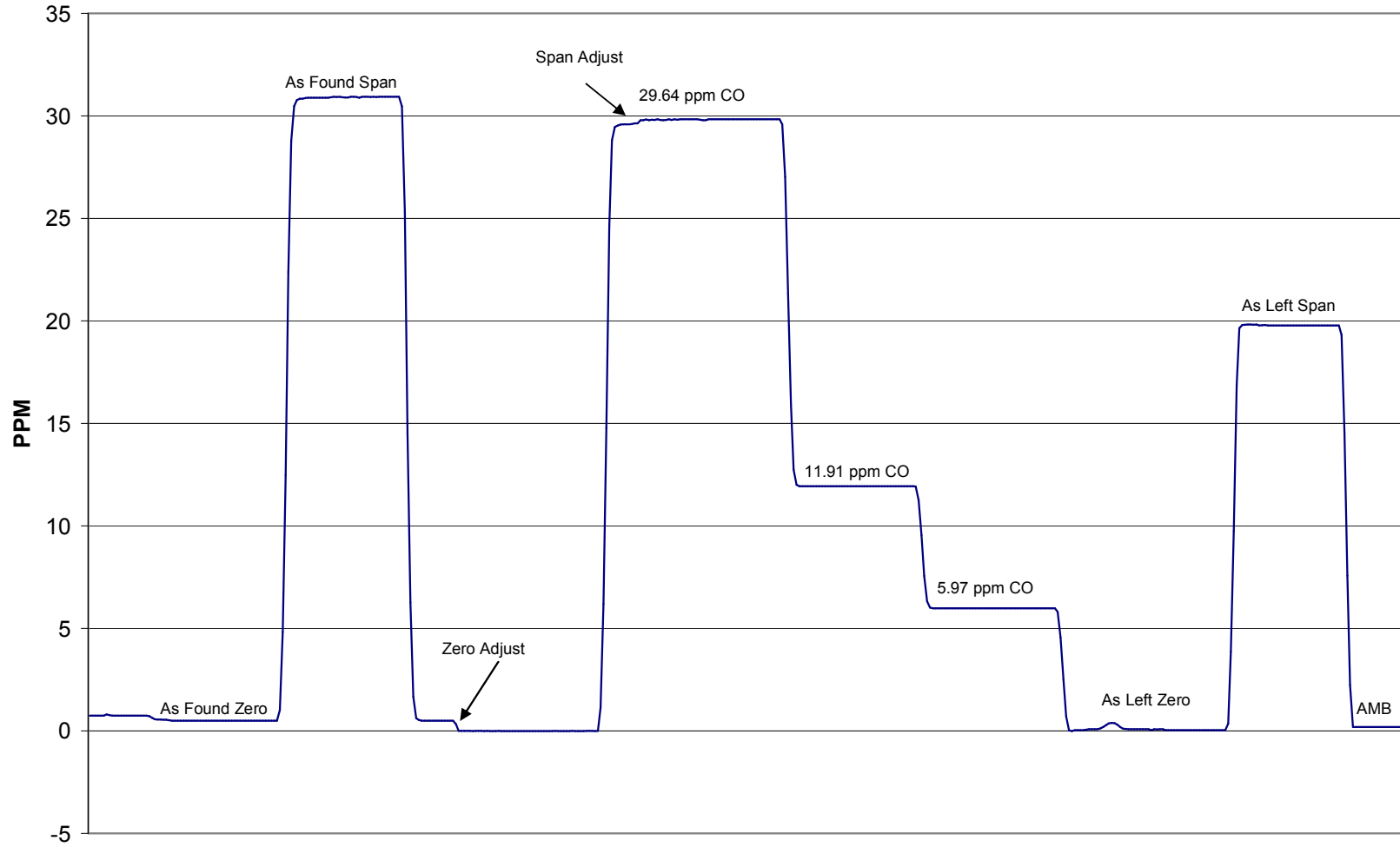
Calibration Date	July 26, 2006	Previous Calibration	June 14, 2006
Station Number	101	Station Location	Crescent Heights
Start Time (MST)	7:22	End Time (MST)	11:09
Analyzer make/model	TEI Model 48C	Analyzer serial #	436609887

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	
0.00	-0.01	N/A		
29.64	29.83	0.9936	Correlation Coefficient	0.999709
11.91	11.93	0.9981		
5.97	6.44	0.9267	Slope	0.998287
			Intercept	-0.149556



CO Calibration



July 26, 2006

Calibration Report

Parameter PM2.5
 Air Monitoring Network Palliser Airshed



Station Information

Calibration Date	July 26, 2006	Previous Calibration	May 18, 2006
Station Number	1	Station Location	Crescent Heights
Reason:	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Install	<input type="checkbox"/> Removal
			<input type="checkbox"/> Other:
Start Time (MST)	8:12	End Time (MST)	11:00
Barometric Pressure	0.712 ATM	Station Temperature	20.0 Deg C
Flow Calibrator	BIOS Drycal DCL-MH	Serial Number	101780
DACS make	AP 1000	DACS serial No.	45269
DACS voltage range	0 - 1 V	DACS channel #	15
	<u>Before</u>		<u>After</u>
DACS Scale High	450	DACS slope	450
DACS Scale Low	-50	DACS intercept	-50

Analyzer Information

Analyzer make	R&P	Control Unit serial #	140AB237960110
Analyzer model	TEOM 1400AB	Sensor Unit serial #	140AB237960110

	before		after	
Main Flow Set Point	3.000	SLPM	2.990	SLPM
Aux Flow Set Point	16.67	SLPM	16.65	SLPM
Filter Load	46	%	13%	%
Ko Factor	12758		NA	
Temperature	14.1	Deg C	30.0	Deg C
Pressure	0.907	ATM	0.907	ATM

Calibration Data

Parameter	Set Point	TEOM Reading (as found)	Tolerance	TEOM Reading (after adjustments)
zero flow - main	0.0	0.02	0.00	0.01
zero flow - auxillary	0.0	0.02	0.01	0.00
flow recovery - main	45 - 60 Seconds	25.0	45 - 60 Seconds	25.0
flow recovery - aux	46 - 60 Seconds	30.0	46 - 60 Seconds	30.0
Temperature	measured	31.0	+/- 1.0 Deg C	31.0
Pressure	measured		+/- 1.5% ΔATM	
Total Flow	16.67 SLPM	16.55		16.65
Auxiliary flow	13.67 SLPM	13.78	+/- 1.0 SLPM	13.64
Main flow	3.0 SLPM	2.991	+/- 0.2 SLPM	3.010
Leak Check - main	0.0	0.02	<0.15 SLPM	0.01
Leak Check - aux	0.0	0.02	<0.15 SLPM	0.02
Ko Factor (w/o filter)	measured	NA	filter weight (g)	NA
Ko Factor (w/ filter)	measured	NA	% Ko difference	N/A

Notes: Main and Auxiliary flows were low... Adjusted all flows...

Calibration Performed By: LF, TM